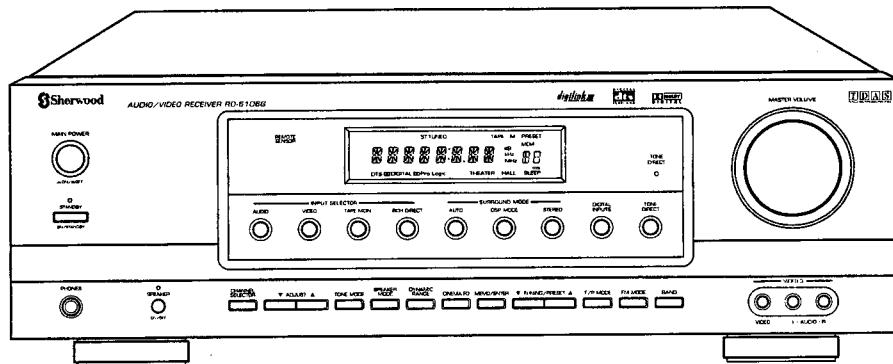


SERVICE MANUAL

RD-6106/G/RDS DOLBY DIGITAL AC-3/DTS READY RECEIVER



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 **Sherwood®**

SAFETY PRECAUTIONS

WARNING

Before servicing this unit, familiarize yourself with the following precautions:

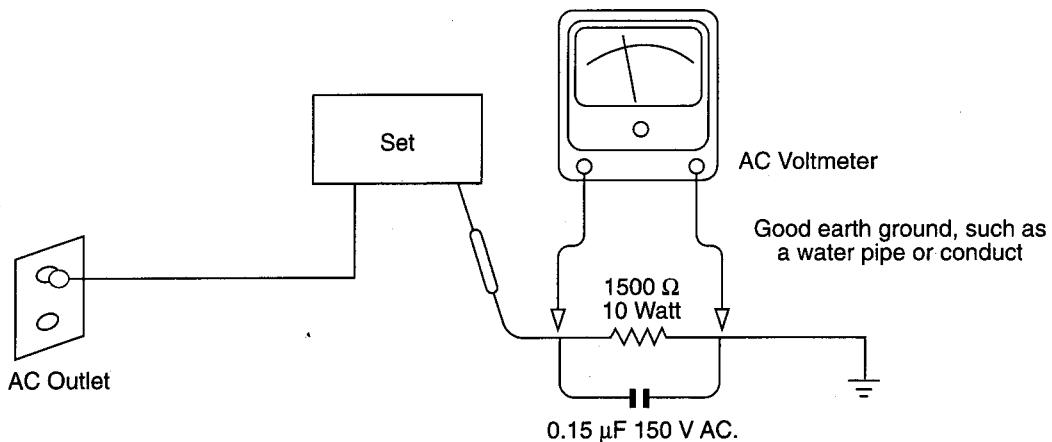
1. Many electrical and mechanical parts in this chassis have special safety characteristics that often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements: electrical components having such features are identified by  in the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

2. Before returning the set to the customer, always do an AC leakage current check on the

exposed metal parts of the cabinet, such as terminals, screw heads, and metal overlays, to be sure the set is safe to operate danger of electrical shock. Plug the AC line cord directly into a 120 V AC outlet(USA Version) or 230 V AC outlet(EU Version). (Do not use a line isolation transformer during this check.) Be sure your AC voltmeter has a sensitivity of 5000 Ω per volt or greater. Then connect a 1500 Ω 10 watt resistor, paralleled by a 0.15 μ F 150 V AC capacitor, between a known good earth ground(such as a water pipe, or conduit) and the exposed metalic parts, one at a time. Measure the AC voltage across the combination of a 1500 Ω resistor and a 0.15 μ F capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metalic part. Voltage measured must not exceed 0.75 V RMS. This corresponds to 0.2 mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

At 5000 Ω per volt or greater sensitivity,
the reading should not exceed 0.75 V.



Place the probe on each exposed metalic part.

SPECIFICATIONS

Measuring methods are based on IHF and IEC standard 268-3

Measurements conditions, unless otherwise noted :

Output resistive load = (8) ohms / Both channel driven

Tone(Bass, Treble), Balance, EQ control : Center Position , Other SW's : OFF

Nominal input level : 5mV for MM, 0.5mV for MC, 500mV for general purpose inputs

Power figures should be kept minimum 10min. between 15 and 35°C

Terminator : 100ohm for MC, 1kohm for MM and general purpose inputs

Filter : IHF-A filter R/O = Rated Output

Power supply : 120V/60Hz (A), 220V/50Hz (C), 230V/50Hz (D)

● FRONT AMP SECTION

*SUB-WOOFER SPKR : NO *SPKR LEVEL : ALL 0dB

*SOURCE DIRECT ON(TONE DIRECT MODE)

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT L/R	NOMINAL L/R
1	INPUT SENSITIVITY	CD	1kHz		mV	200±40	200±30
		MM	1kHz		mV		
		MC	1kHz		mV		
		MIC	1kHz		mV		
2	CHANNEL BALANCE	CD	1kHz	R/O TO -40dB	dB	±3	±2
			1kHz				
3	DAMPING FACTOR	CD	1kHz				
4	RESIDUAL NOISE	CD	1kHz	VOL min.	mV	≤1.2	≤1.0
			1kHz	VOL max.	mV		
5	TOTAL HARMONIC DISTORTION	CD (500mV)	(40)Hz	R/O	%	≤0.2	≤0.09
			1kHz		%	≤0.2	≤0.09
			(20)KHz		%	≤0.3	≤0.2
6	CONTINUOUS AVERAGE POWER at (0.2)% THD	CD	(40)Hz	(8)ohms	W	50	52
			1kHz		W	50	52
			(20)KHz		W	50	52
7	IMD (SMPTE)	CD	60Hz=4	R/O	%	≤0.3	≤0.2
			7kHz=1		%	≤0.3	≤0.2
8	S/N RATIO, IHF-A FILTER	CD (500mV)	1kHz	R/O	dB	≥85	≥90
			1kHz		dB		
9	CHANNEL SEPARATION	CD (500mV)	100Hz	R/O-3dB	dB	≥45	≥55
			1kHz		dB	≥45	≥55
			10kHz		dB	≥40	≥45
10	FUNCTION CROSSTALK	CD→TAPE IN	1/10 kHz	R/O-3dB	dB	≥60/50	≥65/55
11	FREQUENCY RESPONSE (-3dB)	CD (500mV)		1W	Hz~kHz	20~50	20~55
12	TONE CONTROL, ±(8)dB	CD	100Hz	1W	dB	±10±2	±10±1
			10kHz		dB	±10±2	±10±1
13	SUBWOOFER OUT (1ch input)	CD (200mV)	30Hz	VOL max.	V	1±0.4	1±0.3
14	PHONO EQUALIZATION	PHONO	100Hz	TAPE OUT	dB		
			10KHz		dB		
15	HEADPHONE OUTPUT H/P = 64ohms	CD (500mV)	1kHz	R/O	V	2.4±0.4	2.4±0.2
			1kHz		V		
16	DIN POWER at 1% THD	CD	1kHz	R/O	W		

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT L/R	NOMINAL L/R
17	DYNAMIC POWER OUTPUT 20 cycle ON, 480 cycle OFF	CD	1kHz	()ohms	W		
18	POWER BANDWIDTH -3dB	CD		R/O	Hz~kHz		
19	SLEW RATE	CD	1kHz	R/O	V/usec		
20	SLEW-FACTOR	CD (500mV)					
21	PRE OUTPUT LEVEL	6-CH (200mV)	1kHz	VOL max.	V		
		SUB-CH (200mV)	30Hz	VOL max.	V	1.7 ±0.4	1.7 ±0.3
22	CINEMA EQ at 1W	CD	1kHz	VOL max.	dB		
		CD (500mV)	10kHz	VOL max.	dB	-5.5±1.5	-5.5±1
23	DC OFFSET VOLTAGE	CD		VOL min.	mV	70	50

● REAR AMP SECTION

Measurements conditions : Input level 350mV

Rear level max, Delay Time 20ms, Master volume adj

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT L/R	NOMINAL L/R
1	POWER OUTPUT 0.7% THD	CD	1kHz	(8)ohms	W	≥50	≥55
2	TOTAL HARMONIC DISTORTION	CD	1kHz	1W	%	≤1	≤0.7
3	S/N RATIO DOLBY IHF-A FILTER, THEATER HALL1 HALL2	CD		R/O	dB	≥55	≥63
					dB		
					dB		
					dB		
4	FRE RES. LARGE SMALL	CD	1kHz	1W	Hz~kHz	25~6	20~7K
					Hz~kHz	120~6	100~7K
5	DC OFFSET VOLTAGE	CD		VOL min.	mV	70	50

● CENTER AMP SECTION

Measurements conditions : Input level 350mV

SPKR : WIDE, Center level max, Master volume adj

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT	NOMINAL
1	POWER OUTPUT at 0.3% THD	CD	1kHz	(8)ohms	W	≥50	≥55
2	TOTAL HARMONIC DISTORTION	CD	1kHz	1W	%	≤0.3	≤0.2
3	S/N RATIO, IHF-A FILTER	CD		R/O	dB	≥55	≥61
4	FRE. RESPONSE LARGE DOLBY MODE SMALL	CD		1W	Hz~kHz	35~18K	30~21K
					Hz~kHz	135~18K	120~20K
5	CINEMA EQ	CD (500mV)	1kHz	VOL max.	dB		
			10kHz	VOL max.	dB	-5.5±1.5	-5.5±1
6	DC OFFSET VOLTAGE	CD		VOL min.	mV	70	50

● VIDEO SECTION

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL	VCR1(1Vp-p)	1MHz	75 ohm	Vp-p	-1±0.2	-1±0.1
2	FREQUENCY RESPONSE	"		5Hz ~ 6MHz	dB	±2.0	±3.0
3	S/N RATIO	"	1MHz		dB	40	45
4	CROSSTALK	"	1MHz		dB	40	45

TUNER SECTION

Measuring methods in confirmity with IEC standard 315

Measurements condition FM : Radio frequency = 98.1MHz, Audio frequency = 1kHz

Reference level = 1mV on (75ohms , 300ohms)

Deviation : MONO = $\pm 75\text{kHz}$, Stereo = $\pm 67.5\text{kHz} \pm 7.5\text{kHz}$ (America)

MONO = $\pm 40\text{kHz}$, Stereo = $\pm 40\text{kHz} \pm 7.5\text{kHz}$ (Europe)

Test Point : TP 1 = 90.1MHz, TP 2 = 98.1MHz, TP 3 = 106.1MHz Filter = B.P.F at STEREO

Power supply : 120V/60Hz (A), 220V/50Hz (C), 230V/50Hz (D/RDS)

● FM SECTION

NO	DESCRIPTION		UNIT	LIMIT L/R	NOMINAL L/R
1	TUNING RANGE STEP (A) STEP (C/D/RDS)		LOW ~ HIGH	MHz	87.5~108
			AUTO/Man.	kHz	100/100
			AUTO/Man.	kHz	100/50
2	USABLE SENSITIVITY S/N = 30dB (A) S/N = 26dB (C/D/RDS)		TP 1	dBf	≤ 23.2
			TP 2	dBf	≤ 23.2
			TP 3	dBf	≤ 23.2
3	FULL LIMITING SENSE (A) (C/D/RDS)		OUTPUT = -3dB	dBf	≤ 15.2
			OUTPUT = -3dB		≤ 23.2
4	AUTO STOP LEVEL		dBf	31.2 ± 5	31.2 ± 3
5	AUTO SCAN ERROR		kHz	± 7	± 9
6	S/N RATIO IHF-A FILTER		MONO	dB	≥ 65
			STEREO	dB	≥ 60
7	TOTAL HARMONIC DISTORTION		MONO	%	≤ 0.5
			STEREO	%	≤ 0.8
8	50dB QUIETING SENS. (A) 46dB QUIETING SENS. (C/D/RDS)		MONO	dBf	≤ 27.2
			STEREO	dBf	≤ 48.3
9	CHANNEL SEPARATION		100Hz	dB	≥ 30
			1kHz	dB	≥ 30
			10kHz	dB	≥ 25
10	FREQUENCY RESPONSE AT $\pm 1.3\text{dB}$		Hz	30~11K	25~12K
11	SPURIOUS RESPONSE		dB	≥ 65	≥ 70
12	IF REJECTION		TP 1	dB	≥ 70
13	IMAGE REJECTION (A) (C/D/RDS)		TP 3	dB	≥ 35
			TP 3	dB	≥ 35
14	AM REJECTION RATIO (A) (C/D/RDS)		dB	≥ 47	≥ 52
			dB	≥ 60	≥ 52
15	RF INTERMODULATION		dB		
16	CAPTURE RATIO		dB		

NO	DESCRIPTION		UNIT	LIMIT L/R	NOMINAL L/R
17	ALTERNATIVE CH SELECTIVITY \pm (400)kHz		dB		
19	OUPUT LEVEL MONO	TAPE REC OUT	mV	500 \pm 150	500 \pm 100
20	RDS SENSITIVITY (D/RDS)		dBf	\leq 40.2	\leq 38.2

● AM SECTION

Measuring methods in conformity with IEC standard 315

Measurements condition AM - MW : Radio frequency = 1000/999kHz, Audio frequency = 400Hz

LW : Radio frequency = 207kHz, Audio frequency = 400Hz

Reference level = 5mV/m, 10mV/m on 50ohms Modulation = 30%

Test Point : MW TP1 = (600)kHz TP2 = (1000)kHz TP3 = (1400)kHz \rightarrow (A)

MW TP1 = (594)kHz TP2 = (999)kHz TP3 = (1404)kHz \rightarrow (C/D/RDS)

LW TP1 = 162kHz, TP2 = 207kHz, TP3 = 252kHz

NO	DESCRIPTION		UNIT	LIMIT L/R	NOMINAL L/R
1	TUNING COVER RANGE (A) (C/D/RDS)		kHz	520~1710	
			kHz	522~1611	
	STEP (A) (C/D/RDS)	AUTO/Man.	kHz	10/10	
		kHz	9		
2	USABLE SENSITIVITY S/N = 20dB	MW TP 1	uV/m	\leq 800	\leq 500
		TP 2	uV/m	\leq 800	\leq 500
		TP 3	uV/m	\leq 800	\leq 500
3	S/N RATIO	MW	dB	\geq 35	\geq 40
		LW	dB		
4	TOTAL HARMONIC DISTORTION		%	\leq 2	\leq 1.5
5	OVER LOAD DISTORTION 5mV 80% MOD		%	\leq 10	\leq 5
6	FREQUENCY RESPONSE at -6dB	MW	Hz	100~2K	80~2.2K
		LW	Hz		
7	SELECTIVITY 10kHz/9kHz	MW	dB	\geq 20	\geq 25
		LW	dB		
8	AGC FIGURE OF MERIT Input=100mV, -10dB		dB	\geq 50	\geq 55
9	IMAGE REJECTION	MW = TP 3	dB	\geq 25	\geq 30
		LW = TP 3	dB		
10	WHISTLE MODULATION INPUT = 1mV/m	2IF	%	\leq 15	\leq 10
		3IF	%		
11	AUTO STOP LEVEL	MW	uV/m	800(\pm 10dB)	800(\pm 8dB)
		LW	uV/m		
12	TUNED LEVEL	MW	uV/m	800(\pm 10dB)	800(\pm 8dB)
		LW	uV/m		
13	OUTPUT LEVEL (A) (C/D/RDS)	TAPE REC OUT	mV	160 \pm 60	160 \pm 50
		TAPE REC OUT	mV	150 \pm 60	150 \pm 50

AC-3 SECTION

Measurements conditions, unless otherwise noted.

Input Function : LD (other digital player)

Digital Input Mode : LD COAXIAL

Main Vol. Position : 50 position.

Trim Vol. Position : All "0" dB

Test Point : Spk-out & Pre-out

Test Disc : DOLBY TEST DISC VERSION 1.0

Center, Rear Delay : 0ms

NO	DESCRIPTION				CONTENTS-TEST TONE						CHAP	F	C	R	SW
1	OUTPUT LEVEL				1kHz 0dBFS L/C/R/LS/RS						38	L	L	L	Y
	LIMIT	7.0±1.0	NOMINAL	7.0±0.5	L	C	R	LS	RS	SW	UNIT	V			
	OUTPUT LEVEL				30kHz 0dBFS LFE (Pre Out)						18	L	L	L	Y
	LIMIT	1.0±0.4	NOMINAL	1.0±0.3	L	C	R	LS	RS	SW	UNIT	V			
2	OUTPUT LEVEL MAIN VOL. : MIN.				1kHz 0dBFS L/C/R/LS/RS						38	L	L	L	Y
	LIMIT	≤1.2	NOMINAL	≤1.0	L	C	R	LS	RS	SW	UNIT	mV			
	OUTPUT LEVEL MAIN VOL. : MIN.				30kHz 0dBFS LFE (Pre Out)						18	L	L	L	Y
	LIMIT	≤1.2	NOMINAL	≤1.0	L	C	R	LS	RS	SW	UNIT	mV			
3	S/N	SPK-OUT : 1W "A" WEIGHTED			1kHz -20dBFS L/C/R/LS/RS						6	L	L	L	Y
	LIMIT	≥60	NOMINAL	≥65	L	C	R	LS	RS	SW	UNIT	dB			
	S/N	PRE-OUT : 1V UNWEIGHTED			30kHz 0dBFS LFE						18	L	L	L	Y
	LIMIT	≥60	NOMINAL	≥65	L	C	R	LS	RS	SW	UNIT	dB			
4	T.H.D	SPK-OUT : 1W			1kHz -20dBFS L/C/R/LS/RS						6	L	L	L	Y
	LIMIT	≤0.5	NOMINAL	≤0.3	L	C	R	LS	RS	SW	UNIT	%			
	T.H.D	PRE-OUT : 1V			30kHz 0dBFS LFE						18	L	L	L	Y
	LIMIT	≤0.3	NOMINAL	≤0.25	L	C	R	LS	RS	SW	UNIT	%			
5	CHANNEL SEPARATION				REF : 1kHz 0dBFS L						8(REF)	L	L	L	Y
	LIMIT/NOMINAL	OTHER CHANNEL			L	C	R	LS	RS	SW	UNIT	dB			
	CHANNEL SEPARATION				REF : 1kHz 0dBFS C						10(REF)	L	L	L	Y
	LIMIT	≥55	NOMINAL	≥60	L	C	R	LS	RS	SW	UNIT	dB			
	CHANNEL SEPARATION				REF : 1kHz 0dBFS R						12(REF)	L	L	L	Y
	LIMIT/NOMINAL	L ↔ R			L	C	R	LS	RS	SW	UNIT	dB			
	CHANNEL SEPARATION				REF : 1kHz 0dBFS LS						14(REF)	L	L	L	Y
	LIMIT	≥55	NOMINAL	≥60	L	C	R	LS	RS	SW	UNIT	dB			
	CHANNEL SEPARATION				REF : 1kHz 0dBFS RS						16(REF)	L	L	L	Y
	LIMIT/NOMINAL	ALL ↔ S/W			L	C	R	LS	RS	SW	UNIT	dB			
	CHANNEL SEPARATION				REF : 30kHz 0dBFS LFE						18(REF)	L	L	L	Y
	LIMIT	≥55	NOMINAL	≥60	L	C	R	LS	RS	SW	UNIT	dB			

NO	DESCRIPTION				CONTENTS-TEST TONE						CHAP	F	C	R	SW
6	DYNAMIC RANGE				1kHz 0dBFS L/C/R/LS/RS						38	L	L	L	Y
	LIMIT	-11±2	NOMINAL	-11±1	L	C	R	LS	RS	SW	UNIT	dB			
7	DYNAMIC RANGE				30kHz 0dBFS LFE						18	L	L	L	Y
	LIMIT	-0±2	NOMINAL	-0±1	L	C	R	LS	RS	SW	UNIT	dB			
8	DIALOG NORMALIZATION				1kHz -20dBFS L/C/R/LS/RS						43	L	L	L	Y
	LIMIT	-10±1	NOMINAL	-10±0.5	L	C	R	LS	RS	SW	UNIT	dB			
9	DIALOG NORMALIZATION				30kHz 20dBFS LFE						43	L	L	L	Y
	LIMIT	-10±1	NOMINAL	-10±0.5	L	C	R	LS	RS	SW	UNIT	dB			
10	OUTPUT CONFIGURATION1 TEST				REF : 1kHz 0dBFS L						8(REF)	S	S	S	Y
					30Hz 0dBFS LFE						18	S	S	S	Y
11	LIMIT	10±1	NOMINAL	10±2	L	C	R	LS	RS	SW	UNIT	dB			
	OUTPUT CONFIGURATION1 TEST				REF : 1kHz 0dBFS LFE						18(REF)	S	S	S	Y
12					30Hz 0dBFS L/C/R/LS/RS/LFE						22	S	S	S	Y
	LIMIT	6.5±2	NOMINAL	6.5±1	L	C	R	LS	RS	SW	UNIT	dB			
13	OUTPUT CONFIGURATION1 TEST				REF : 1kHz 0dBFS L/C/R/LS/RS						38(REF)	S	S	S	Y
					30Hz 0dBFS L/C/R/LS/RS						20	S	S	S	Y
14	LIMIT	-19.5±3	NOMINAL	-19.5±2	L	C	R	LS	RS	SW	UNIT	dB			
	OUTPUT CONFIGURATION2 TEST				REF : 1kHz 0dBFS L/C/R/LS/RS						38(REF)	L	S	S	N
15					30Hz 0dBFS LFE						18	L	S	S	N
	LIMIT	5.5±2	NOMINAL	5.5±1	L	C	R	LS	RS	SW	UNIT	dB			
16	OUTPUT CONFIGURATION2 TEST				REF : 1kHz 0dBFS L/C/R/LS/RS						38(REF)	L	S	S	N
					30Hz 0dBFS L/C/R/LS/RS/LFE						22	L	S	S	N
17	LIMIT	10±2	NOMINAL	10±1	L	C	R	LS	RS	SW	UNIT	dB			
	DOWNMIXING TEST				REF : 1kHz 0dBFS C → CENTER : NO						10(REF)	L	S	S	N
18	LIMIT	-3.0±1	NOMINAL	-3.0±0.5	L	C	R	LS	RS	SW	UNIT	dB			
	DOWNMIXING TEST				REF : 1kHz 0dBFS LS → LS : NO						14(REF)	L	S	S	N
19	LIMIT	-3.0±1	NOMINAL	-3.0±0.5	L	C	R	LS	RS	SW	UNIT	dB			
	DOWNMIXING TEST				REF : 1kHz 0dBFS RS → RS : NO						16(REF)	L	S	S	N
20	LIMIT	-3.0±1	NOMINAL	-3.0±0.5	L	C	R	LS	RS	SW	UNIT	dB			
	DOWNMIXING TEST				REF : 1kHz -20dBFS L/C/R/LS/RS → ST : ON						6(REF)	L	S	S	N
21	LIMIT	7.5±2	NOMINAL	7.5±1	L	C	R	LS	RS	SW	UNIT	dB			
	USING VER2.0 (DOWNMIXING TEST)				REF : 30kHz -3dBFS L/C/R/LS/RS/LFE → ST : ON						47(REF)	L	S	S	N
22	LIMIT	0±2	NOMINAL	0±1	L	C	R	LS	RS	SW	UNIT	dB			
	USING VER2.0 (DOWNMIXING TEST)				REF : 30kHz -3dBFS L/C/R/LS/RS/LFE, ST ON → SW : NO						47(REF)	L	S	S	N
23	LIMIT	0±2	NOMINAL	0±1	L	C	R	LS	RS	SW	UNIT	dB			

☞ DTS SECTION

Measurements conditions, unless otherwise noted : Input Function : DVD

Digital Input Mode : OPTICAL or COAXIAL

Speaker Mode : FL-CL-RL, SW-YES

Trim Vol Position : All "0" dB

Test Point : Spk-out & Pre-out

Test disc : DTS Set-Up Disc VER.2

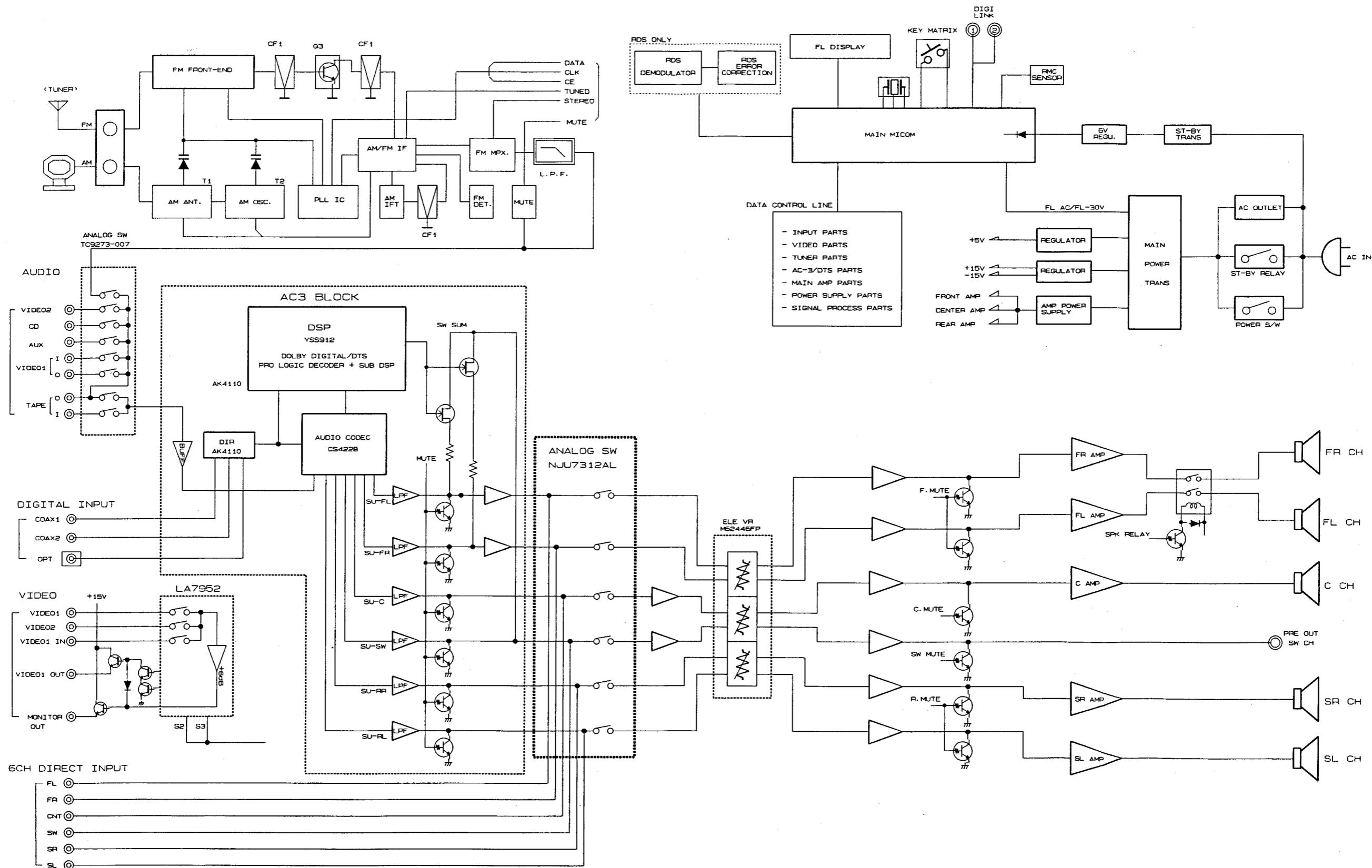
Master vol. Position : 50

- * CHAPT 10 : LEFT CH. 1kHz SINE WAVE 0dBFS
- 11 : RIGHT CH. 1kHz SINE WAVE 0dBFS
- 12 : LEFT SURROUND CH. 1kHz SINE WAVE 0dBFS
- 13 : RIGHT SURROUND CH. 1kHz SINE WAVE 0dBFS
- 14 : CENTER CH. 1kHz SINE WAVE 0dBFS
- 15 : LFE CH. 30Hz SINE WAVE 0dBFS

NO	DESCRIPTION				CONTENTS-TEST TONE						CHAP	F	C	R	SW
1	OUTPUT LEVEL				1kHz 0dBFS L/C/R/LS/RS						10~14	L	L	L	Y
	LIMIT	7.0±1.0	NOMINAL	7.0±0.5	L	C	R	LS	RS	SW	UNIT	v			
	OUTPUT LEVEL				30kHz 0dBFS LFE (Pre Out)						15	L	L	L	Y
	LIMIT	1.0±0.4	NOMINAL	1.0±0.3	L	C	R	LS	RS	SW	UNIT	v			
2	OUTPUT LEVEL MAIN VOL. : MIN.				1kHz 0dBFS L/C/R/LS/RS						10~14	L	L	L	Y
	LIMIT	≤1.2	NOMINAL	≤1.0	L	C	R	LS	RS	SW	UNIT	mV			
	OUTPUT LEVEL MAIN VOL. : MIN.				30kHz 0dBFS LFE (Pre Out)						15	L	L	L	Y
	LIMIT	≤1.2	NOMINAL	≤1.0	L	C	R	LS	RS	SW	UNIT	mV			
3	S/N	SP-OUT : 1W "A" WEIGHTED			1kHz -20dBFS L/C/R/LS/RS						9	L	L	L	Y
	LIMIT	≥60	NOMINAL	≥65	L	C	R	LS	RS	SW	UNIT	dB			
	S/N	PRE-OUT : 1V UNWEIGHTED			30kHz 0dBFS LFE						15	L	L	L	Y
	LIMIT	≥60	NOMINAL	≥65	L	C	R	LS	RS	SW	UNIT	dB			

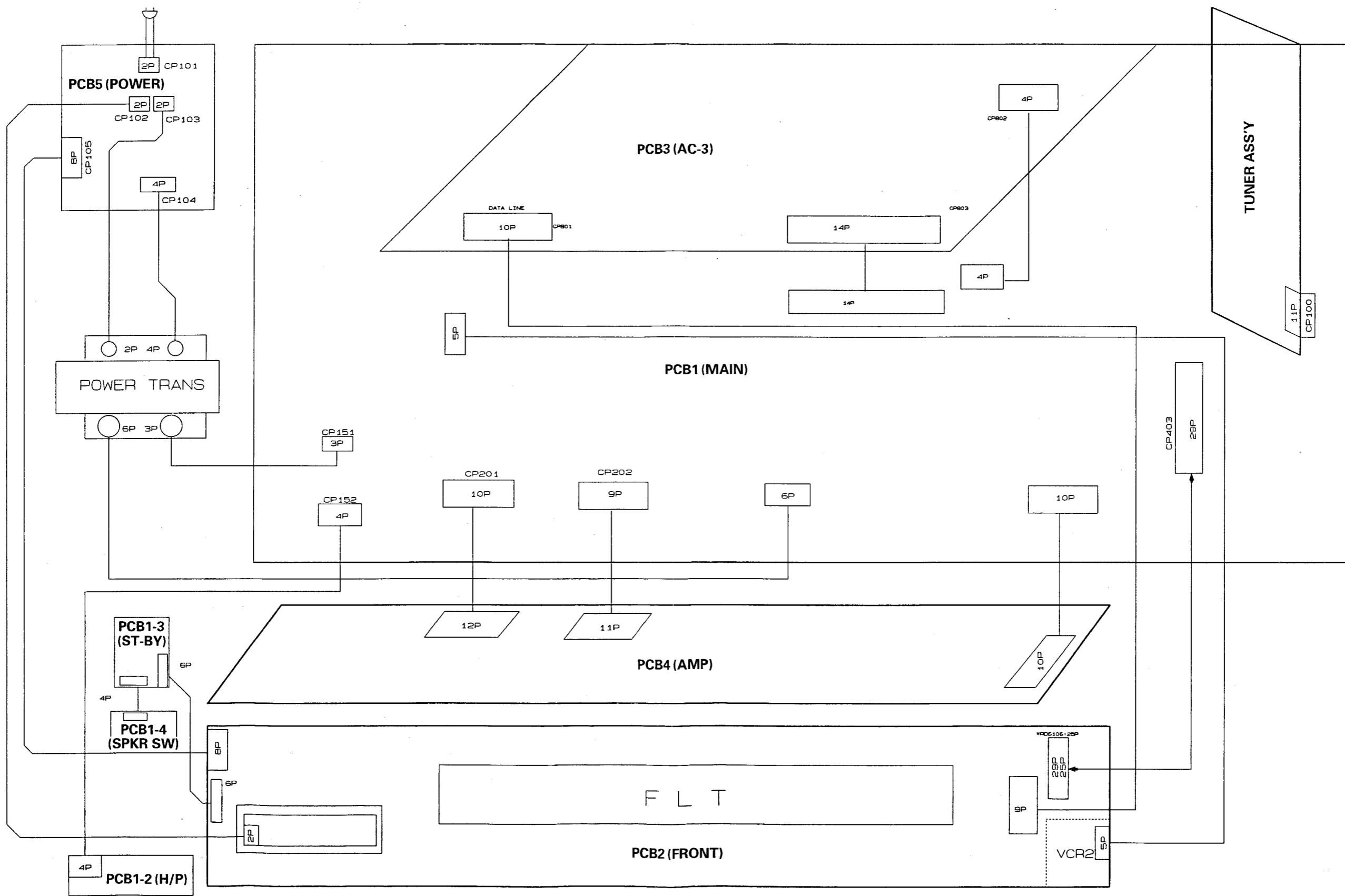
BLOCK DIAGRAM

Model No. : RD-6106/G/RDS



WIRING DIAGRAM

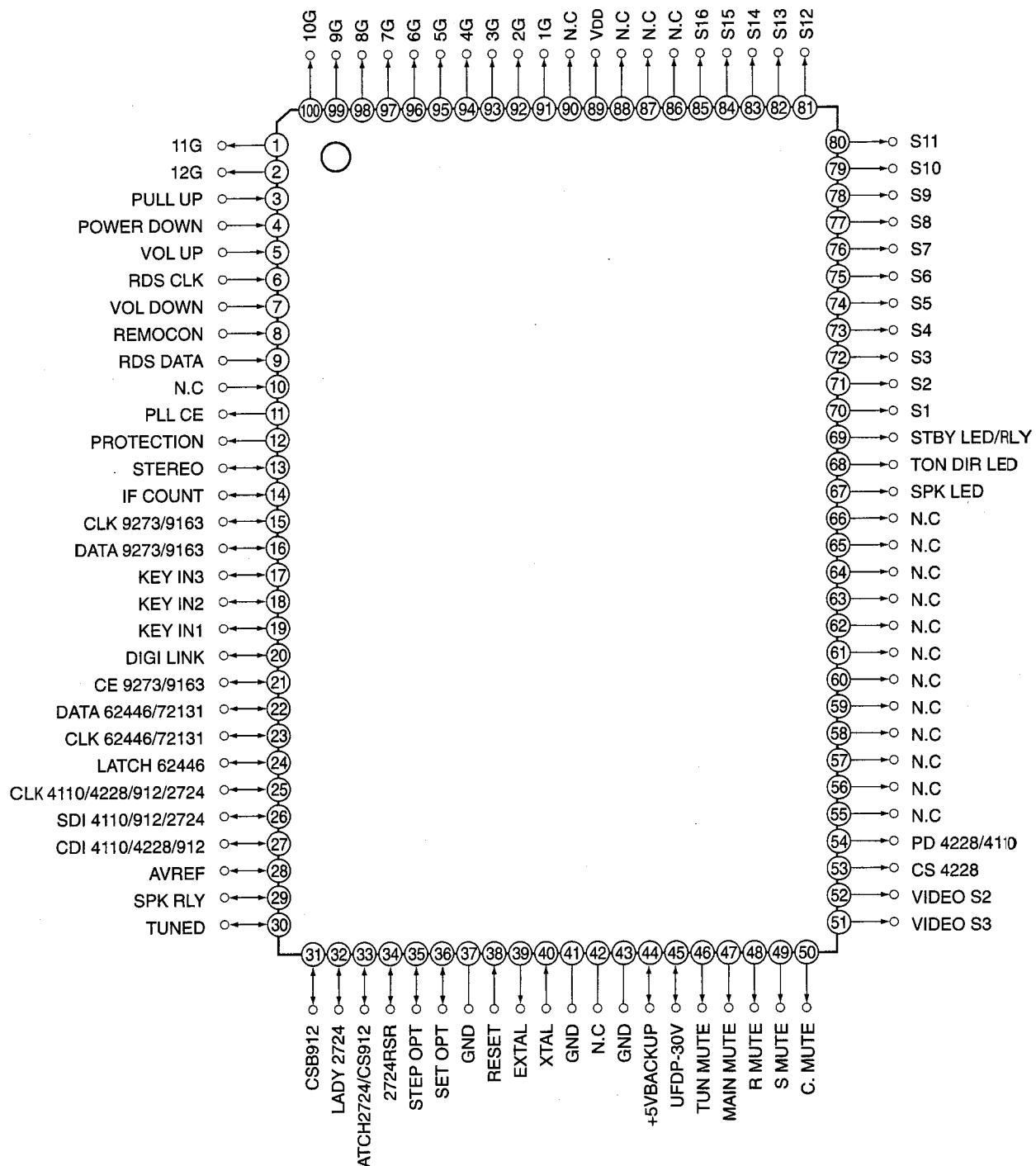
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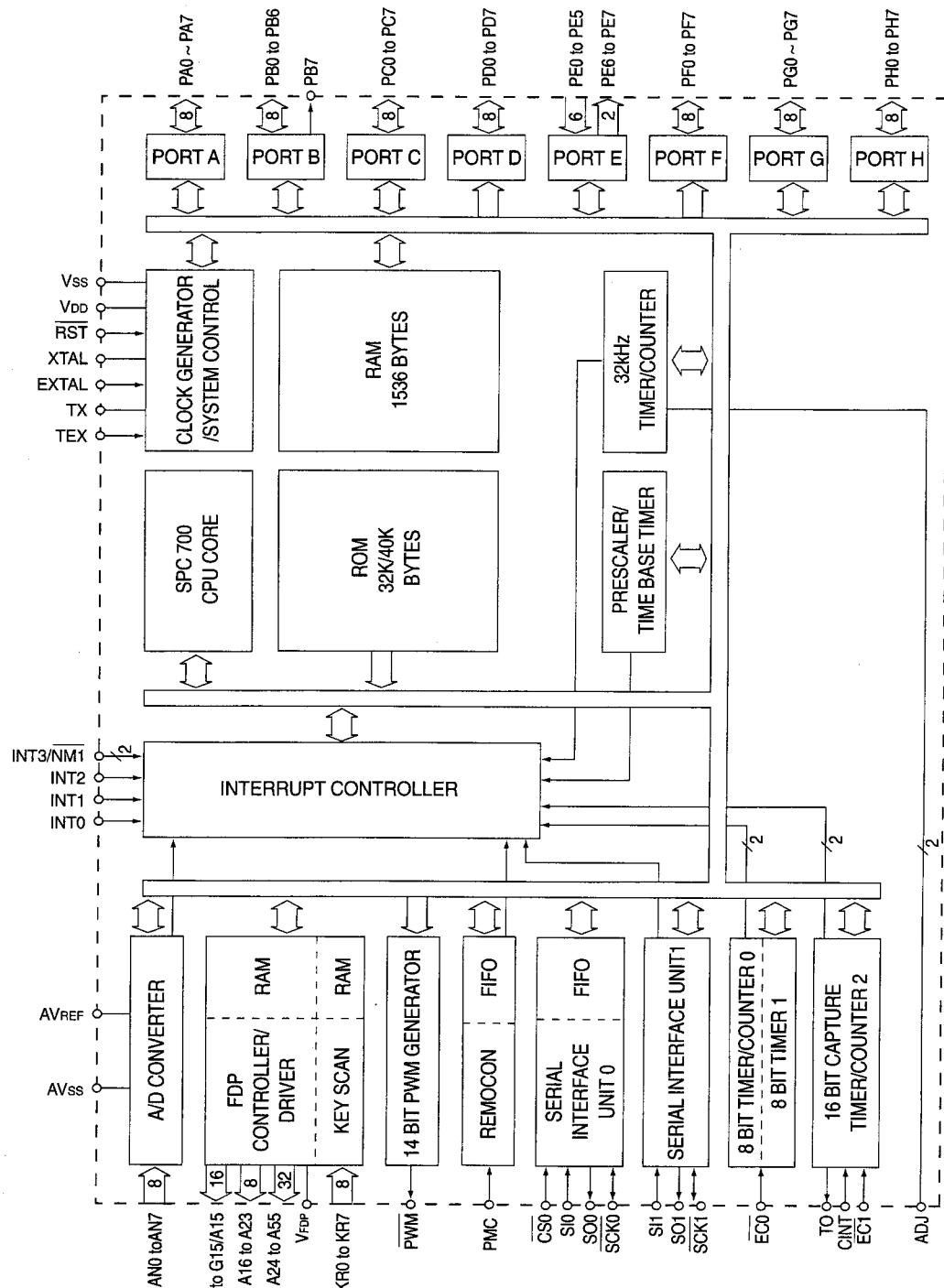
CIRCUIT DESCRIPTION

CXP828960Q-1

1. Pin Description



2. Block Diagram



3. CPU Pin Function

PIN NO.	SYMBOL	DESCRIPTION
1~2	11G, 12G	Grid signal output for FIP.
3	PULL UP(N.C)	+5V power supply for pull-up.
4	POWER DOWN	Input for power down.
5	VOLUME UP	Input for main volume up.
6	RDS CLK	Clock signal output for TDA7330.
7	VOLUME DOWN	Input for main volume down.
8	REMOCON	Input for remocon data.
9	RDS DATA	Input for RDS data of TDA7330.
10	N.C	Not used!
11	PLL CE	Output for chip enable of PLL IC LC72131M.
12	PROTECTION	Input for detecting "Protection" condition.
13	STEREO	Input for detecting "Stereo" condition.
14	IF COUNT	Input for detecting "Scan stop" condition.
15	CLK 9273/9163	Clock signal output for TA9273/NJU7312AL.
16	DATA 9273/9163	Output for data of TA9273/NJU7312AL.
17~19	KEYIN1~3	Data input key scan.
20	DIGILINK	Input/Output for controling digilink.
21	CE 9273/9163	Output for chip enable of TA9273/NJU7312AL.
22	DATA 62446/72131	Output for data of M62446/LC72131.
23	CLK 62446/72131	Clock signal output for M62446/LC72131.
24	LATCH 62446	Output for latch of M62446.
25	CLK 4110/4228/912/2724	Clock signal output for AK4112/AK4527/YSS912/CXD2724AQ3.
26	SDI 4110/4228/912	Serial data input for AK4112/AK4527/YSS912.
27	CDI 410/4228/912	Serial data input for AK4112/AK4527/YSS912.
28	AVREF	Reference voltage. (connected to +5V)
29	SPK RLY	Output for "Speaker switch is ON/OFF".
30	TUNED	Input for detecting "Tuned" condition.
31	CSB912/LADY2724	Sub DSP chip select data output for YSS912/CXD2724AQ3.
32	CS4110/LATCH2724	Output for data of AK4112/LATCH of CXD2724AQ3.
33	CS 912	Output for data of YSS912.

PIN NO.	SYMBOL	DESCRIPTION
34	PON 912/ 2724RST	Initial clear data for YSS912 / CXD2724AQ3
35	STEP OPT	According to region, input for selecting the frequency bands and FM and AM.
36	SET OPT	Input for selecting set (1.7V: RDS, 0V : without RDS Receiver.)
37	GND	Ground.
38	RESET	Input for reseting the CPU. ("L" condition is active.)
39	EXTAL	Input for 10MHz crystal oscillator.
40	XTAL	Output for 10MHz crystal oscillator.
41	GND	VSS (GROUND)
42	N.C	Not used!
43	GND	Ground.
44	+5V BACK UP	VDD +5V
45	VFDP -30V	-30V POWER SUPPLY for FIP.
46	TUNER MUTE	output for TUNER MUTE. (" L" condition is active)
47	MAIN MUTE	Output for FRONT CHANNEL MUTE. (" L" condition is active)
48	R. MUTE	Output for REAR Channel MUTE. (" L" condition is active)
49	S. MUTE	Output for SUB WOOFER Channel MUTE. (" L" condition is active)
50	C. MUTE	Output for Center Channel MUTE. (" L" condition is active)
51~52	VIDEO S2~S3	Output for controlling of VIDEO SOURCE.
53	CS 4228	Output for DATA of AK4527.
54	PD 4228/4110	Output initial data for AK4112/AK4527.
55~66	N.C	Not used!
67	SPK LED	Output to drive speaker LED.
68	TON DIR LED	Output to drive TONE DIRECT LED.
69	STBY LED/RELAY	Output to drive standby LED and power RELAY.
70~85	S1~S15	SEGMENT signal output for FIP.
86~88	N.C	Not used!
89	VDD	VDD +5V
90	N.C	Not used!
91~100	1G~10G	Grid signal output for FIP.

4. Key Matrix Table

	KEY IN1	KEY IN2	KEY IN3
KEY OUT1	CINEMA EQ DELAY TIME	DYNAMIC RANGE TEST TONE	SPK MODE
KEY OUT2	TONE DIRECT STEREO	DIGITAL IN OTHER	6CH DIRECT
KEY OUT3	SPK ON/OFF	STBY	DSP MODE 3 STEREO
KEY OUT4		TA	PTY
KEY OUT5	SEARCH	DISPLAY	PTY SEL
KEY OUT6	ADJ -	ADJ +	TONE MODE AUDIO
KEY OUT7	SPEAKER ON/OFF	STBY ON/OFF	
KEY OUT8	TAPE MONITOR	STEREO VIRTUAL	AUTO PROLOGIC
KEY OUT9	CH SEL	AUDIO	VIDEO
KEY OUT10	TUNE DOWN	TUNE UP	BAND
KEY OUT11	MEMO / ENTER	FM MODE	T/P MODE

ALIGNMENT PROCEDURES

TUNER

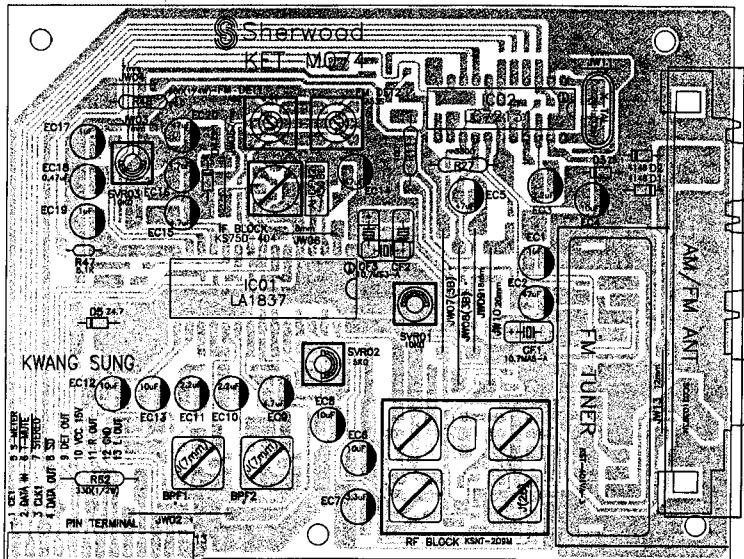
1. Equipment Required

- AM Standard Signal Generator (AM SSG)
- Oscilloscope
- AC Voltmeter
- FM Standard Signal Generator (FM SSG)
- Stereo Modulator
- Audio Generator
- Distortion Meter
- DC Voltmeter
- Frequency Counter

Note : Disconnect external FM antenna prior to alignment.

2. Non RDS Version Alignment

2-1. Alignment and Test Point



2-2. AM Alignment

- Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- Signal generator modulation : 30%
- Signal frequency : 400Hz
- Modulation frequency : 600, 1000, 1400kHz
- Switch : press the BAND Button to AM

Step	Subject	Signal generator setting	Set frequency setting	Equipment connection	Adjustment point	Adjust for
1	Tunning voltage	520kHz	520kHz	DC voltmeter	RF BLOCK OSC coil	520kHz : 1.1~1.3V 1710KHZ: 7.2V~8.5V (DC 1.2± 0.1V)
2	RF Tracking	600kHz	600kHz	AC voltmeter oscilloscope tape monitor L/R	RF BLOCK ANT coil	Maximize audio output Repeat LOW, HIGH frequency
3	IF Tracking	600kHz	600kHz	AC voltmeter oscilloscope tape monitor L/R	IF BLOCK Coil KSNT-1041	Maximize audio output

Step	Subject	Signal generator setting	Set frequency setting	Equipment connection	Adjustment point	Adjust for
4	Seek level	600kHz	600kHz	AC voltmeter oscilloscope tape monitor L/R	SVR 03	Tuned on point

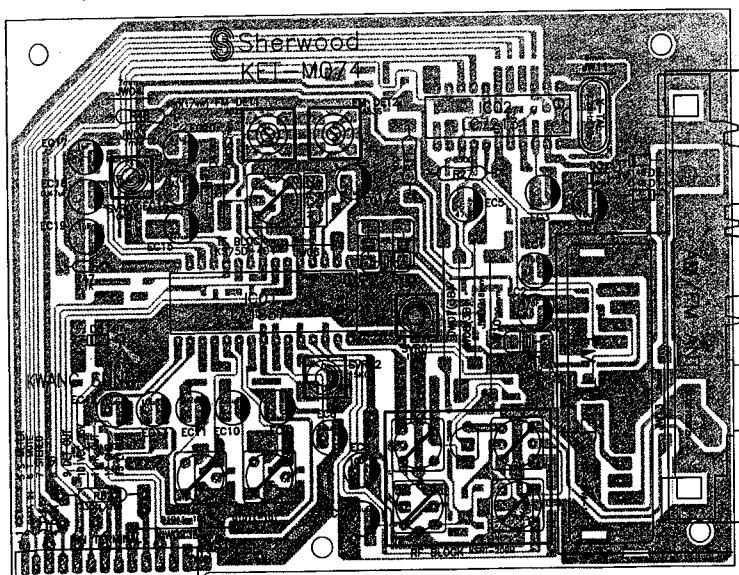
2-3. FM Alignment

- Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- Signal generator modulation : MAIN : 90%, PILOT : 10%
- Signal frequency : 1kHz / Deviation : 75kHz
- Modulation frequency : 90.1MHz, 98.1MHz, 106.1MHz
- Switch : press the BAND Button to FM

Step	Subject	Signal generator setting	Set frequency setting	Equipment connection	Adjustment point	Adjust for
1	Tunning voltage	87.5MHz 108MHz	87.5MHz 108MHz	DC voltmeter		87.5MHz : 1.35~1.65V 108MHz : 6.5V~8.5V (DC 1.2± 0.1V)
2	FM DET.0V and Distortion Adj	98.1MHz	98.1MHz	AC voltmeter oscilloscope DC voltmeter tape monitor L/R	FD1 , FD2 R17	Minimize 0V and distortion
3	Seek stop level	98.1MHz	98.1MHz	AC voltmeter oscilloscope tape monitor L/R	SVR 01	Scan stop point to 18dBu
4	STEREO Separation	98.1MHz	98.1MHz	AC voltmeter oscilloscope DC voltmeter tape monitor L/R	MIX coil CO4 SVR02	Minimize STEREO distortion and Maximize separation Separation L to R Separation R to L

3. RDS Version Alignment

3-1. Alignment and Test Point



3-2. AM Alignment

- Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- Signal generator modulation : 30%
- Signal frequency : 400Hz
- Modulation frequency : 600, 1000, 1400kHz
- Switch : press the BAND Button to AM

Step	Subject	Signal generator setting	Set frequency setting	Equipment connection	Adjustment point	Adjust for
1	Tunning voltage	522kHz	522kHz	DC voltmeter	RF BLOCK OSC coil	522kHz : 1.1~1.3V 1611kHz: 7.2V~8.5V (DC 1.2± 0.1V)
2	RF Tracking	603kHz	603kHz	AC voltmeter oscilloscope tape monitor L/R	RF BLOCK ANT coil	Maximize audio output Repeat LOW, HIGH frequency
3	IF Tracking	603kHz	603kHz	AC voltmeter oscilloscope tape monitor L/R	IF BLOCK Coil KSNT-104I	Maximize audio output
4	Seek level	603kHz	603kHz	AC voltmeter oscilloscope tape monitor L/R	SVR 03	Tuned on point

3-3. FM Alignment

- Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- Signal generator modulation : MAIN : 53.3%, PILOT : 10%
- Signal frequency : 1kHz / Deviation : 40kHz
- Modulation frequency : 90.0MHz, 98.0MHz, 106.0MHz
- Switch : press the BAND Button to FM

Step	Subject	Signal generator setting	Set frequency setting	Equipment connection	Adjustment point	Adjust for
1	Tunning voltage	87.5MHz 108MHz	87.5MHz 108MHz	DC voltmeter		87.5MHz : 1.35~1.65V 108MHz : 6.5V~8.5V (DC 1.2± 0.1V)
2	FM DET.0V and Distortion Adj	98.0MHz	98.0MHz	AC voltmeter oscilloscope DC voltmeter tape monitor L/R	FD1 , FD2 R17	Minimize 0V and distortion
3	Seek stop level	98.0MHz	98.0MHz	AC voltmeter oscilloscope tape monitor L/R	SVR 01	Scan stop point to 18dBu
4	STEREO Separation	98.0MHz	98.0MHz	AC voltmeter oscilloscope DC voltmeter tape monitor L/R	MIX coil CO4 SVR02	Minimize STEREO distortion and Maximize separation Separation L to R Separation R to L

TROUBLESHOOTING

Symptom	Cause and Remedy	Ref NO.
Power On Failure. 1. FLT does not light up. 2. ST-BY LED does not light up.	A) AC-Cord check. B) Power Trans (Main/ST-BY) check. C) Fuse's disconnection check. D) Connector's disconnection or disjunction. Change or close insertion of the connector. E) Inferior Stany-By switch. F) μ -COM I.C & Resonator check. 1. μ -COM IC B+(5)V check. 2. μ -COM clock pulse check.	F (712) CNT (302, 303) SW (307) I.C Pin No. (44) X-TAL (301)
Fuse Disconnection. (Power On)	A) Inferior transformer. B) AMP drive transistor out. (POWER TR) C) AMP drive I.C out. (POWER IC) D) Regulator I.C voltage check. 1. B+ (15)V, B- (15)V	Q (214L/R/C/SL/SR) I.C (101/102)
Key Disorder.	A) Key's being pushed check. B) Key signal input components inferior. C) Key data check. D) μ -COM I.C or Resonator inferior. 1. μ -COM IC B+(5)V check. 2. μ -COM clock pulse check.	SW (301) D (310), R (328) I.C Pin No. (70) I.C Pin No. (301) I.C Pin No. (44) X-TAL (301)
Power Off in 2~3 sec. after Power on.	A) Drive I.C out. (POWER IC) 1. Power drive voltage check. (+6 V, - V) 2. Signal IN/OUT check. B) Drive transistor out. (POWER TR) C) Protection circuit check. 1. Output DC check. 2. μ -COM I.C protection terminal check. D) Posistor's connector disconnection. E) Connector's disconnection or disjunction. F) SLEEP MODE cancellation.	I.C (710) R (123) I.C Pin No. (12) CNT (301)
Bump Sound. (During input-select switch's change.)	A) POWER MUTE Transistor's out and inferior. 1. μ -Com Front Mute Control PORT check. B) CENTER MUTE Transistor's out and inferior. 1. μ -Com Center Mute Control PORT check.	Q (405, 406, 407L/R) I.C Pin No. (47) Q (408, 409, 410) I.C Pin No. (50)

Symptom	Cause and Remedy	Ref NO.
	C) SURROUND MUTE Trasistor's out and inferior. 1. μ -Com Surround Mute Control PORT check.	Q (411, 412, 413L/R) I.C Pin No. (48)
Sounds from Speaker when Headphone's connected.	A) Headphone mute TR out. B) HEADPHONE JACK connection inferior. C) μ -Com I.C inferior. 1. μ -Com H/P IN/OUT control "PORT" check.	JACK (301)
Bass Control Failure.	A) Bass volume check. 1. Resister/Capacitor correction figure check. 2. BASS VR's property inferior. B) TONE AMP IC check. 1. Signal IN/OUT terminal check. 2. IC voltage check. (+6.8)V, (-6.8)V C) TONE VOLUME IC check. 1. Signal IN/OUT terminal. 2. IC Voltage check. (+)V, (-)V 3. IC Control data check.	C (454L/R, 455L/R) IC (406) I.C Pin No. (17, 26) I.C Pin No. (19, 24) I.C Pin No. (5, 30) I.C Pin No. (39, 40, 41)
Treble Control Failure.	A) Treble volume check. 1. Resister/Capacitor correction figure check. 2. Treble VR's property inferior. B) TONE AMP IC check. 1. Signal IN/OUT terminal. 2. IC voltage check. (+)V, (-)V C) TONE VOLUME IC check. 1. Signal IN/OUT terminal. 2. IC voltage check. (+)V, (-)V 3. IC control data check.	C (456L/R) IC (406) I.C Pin No. (18, 25) I.C Pin No. (39, 40, 41)
AMP Sound Dead. 1. "L / R" channel dead. 2. "LEFT" channel dead. 3. "RIGHT" channel dead.	A) Signal Mute TR's inferior. B) Connector disconnection & disjunction. 1. Changer or close insertion of the connector. C) Speaker wire's disjunction. 1. Close insertion of the speaker wire. D) Signal switching IC check. 1. IC voltage check. (+15)V, (-15)V 2. Switching IC control data check. 3. Switching IC signal IN/OUT check.	Q (405, 408, 411, 414) CNT (403) I.C (401, 403) I.C Pin No.(1, 28) I.C Pin No.(13, 15, 16) I.C Pin No.(12, 17)

Symptom	Cause and Remedy	Ref NO.
AC-3/DTS Failure. (DSP Sound Mode)	A) DSP Recoder IC OSC check. B) DIR check. 1. Error Check. 2. LOCK/BCK/SDATA/MCK check. 3. AC-3 Lock Port Check. C) DSP check. 1. Lock check. 2. SDATA 1, 2, 3 check. 3. Micom Interface Port check. D) D/A Check. 1. LOCK/BCK/SDATA check. 2. Signal check. E) IC Voltage check. 1. B+ (DVDD 5V), B- () F) Analog/Digital Input SW check.	X-TAL (801) IC (807) I.C Pin No. (18) I.C Pin No. (19, 20, 21, 24) I.C Pin No. (89) I.C Pin No. (82, 83, 84, 85) I.C Pin No. (65 ~ 69) I.C Pin No. (4, 5, 6, 7, 8) I.C Pin No. (24 ~ 32) I.C Pin No. (14, 15, 35, 36) I.C Pin No. (9)
Video Output Dead.	A) Video selector SW check. 1. DC voltage check. B+(12), B-() 2. Micom control data check. B) Video output buffer TR check.	IC Pin No. (7) IC Pin No. (2, 3) Q (401, 402)
Digi-Link Failure.	A) Digi-link line disconnection check. 1. Digi-Link IN/OUT circuit check. B) μ -COM IC & Resonator inferior. 1. μ -COM IC B+(4.5)V check. 2. μ -COM clock pulse check.	R (401), D (401, 402) I.C Pin No. (20) X-TAL (301)
Remote Controller Failure.	A) Battery check. B) RMC I.C & Resonator inferior. 1. μ -COM IC B+(4.7)V check. 2. μ -COM clock pulse check.	I.C Pin No. (7) X-TAL (301)
FM Failure.	A) FM MUTE adjustment inferior. B) FRONT-END inferior. C) FM DET COIL inferior. D) PLL IC check. 1. PLL IC B+(5)V check. 2. PLL control data check. (Data/CE/Clock) E) TUNER B+ voltage inferior.	T (DET1, DET2) I.C Pin No. (15) I.C Pin No. (2, 3, 4, 5) I.C Pin No. (8)

Symptom	Cause and Remedy	Ref NO.
	F) μ -COM I.C & Resonator inferior. 1. μ -COM IC B+(5)V check. 2. μ -COM clock pulse check.	I.C (301) I.C Pin No.(44) X-TAL(301)
AM Failure.	A) AM V.T voltage inferior. B) PLL IC check. 1. PLL IC B+(5)V check. 2. PLL control data check. (Data/CE/Clock) C) TUNER B+ voltage inferior. D) AM OSC COIL inferior. E) μ -COM I.C & Resonator inferior. 1. μ -COM IC B+(5)V check. 2. μ -COM clock pulse check.	I.C (02) I.C Pin No. (15) I.C Pin No. (2, 3, 4, 5) I.C Pin No. (8) T (RF BLOCK) I.C (301) I.C Pin No. (44) X-TAL (301)
Stereo Effect Failure. Stereo does not light up.	A) FM DET COIL Inferior. B) MPX IC inferior. 1. MPX IC B+ (14)V check. 2. MPX control data check. C) STEREO adjustment inferior. D) FM MUTE adjustment inferior. E) μ -COM I.C & Resonator inferior. 1. μ -COM IC B+(5)V check. 2. μ -COM clock pulse check.	T (DET1, DET2) I.C (01) I.C Pin No. (8) I.C Pin No. (15) VR (02) I.C (301) I.C Pin No.(44) X-TAL (301)
Tuner Sound Dead. 1. "L / R" channel dead. 2. "LEFT" channel dead. 3. "RIGHT" channel dead.	A) MUTE TR inferior. B) Connector's disconnection or disjunction . 1. Change or Close insertion of the connector. C) AM/FM IF IC check. 1. Signal IN/OUT terminal. 2. I.C driving voltage check. (+12V) D) FM DET COIL inferior. E) AM IFT COIL inferior. F) MPX I.C check. 1. Signal IN/OUT terminal. 2. I.C driving voltage check. (+ V)	Q (9, 10, 11) CNT (CP401) IC (01) I.C Pin No. (1, 16, 17) IC (01) T (DET1, DET2) T (RF BLOCK) I.C (01)

MECHANICAL PARTS LIST

◆ Parts without Parts NO are not supplied.

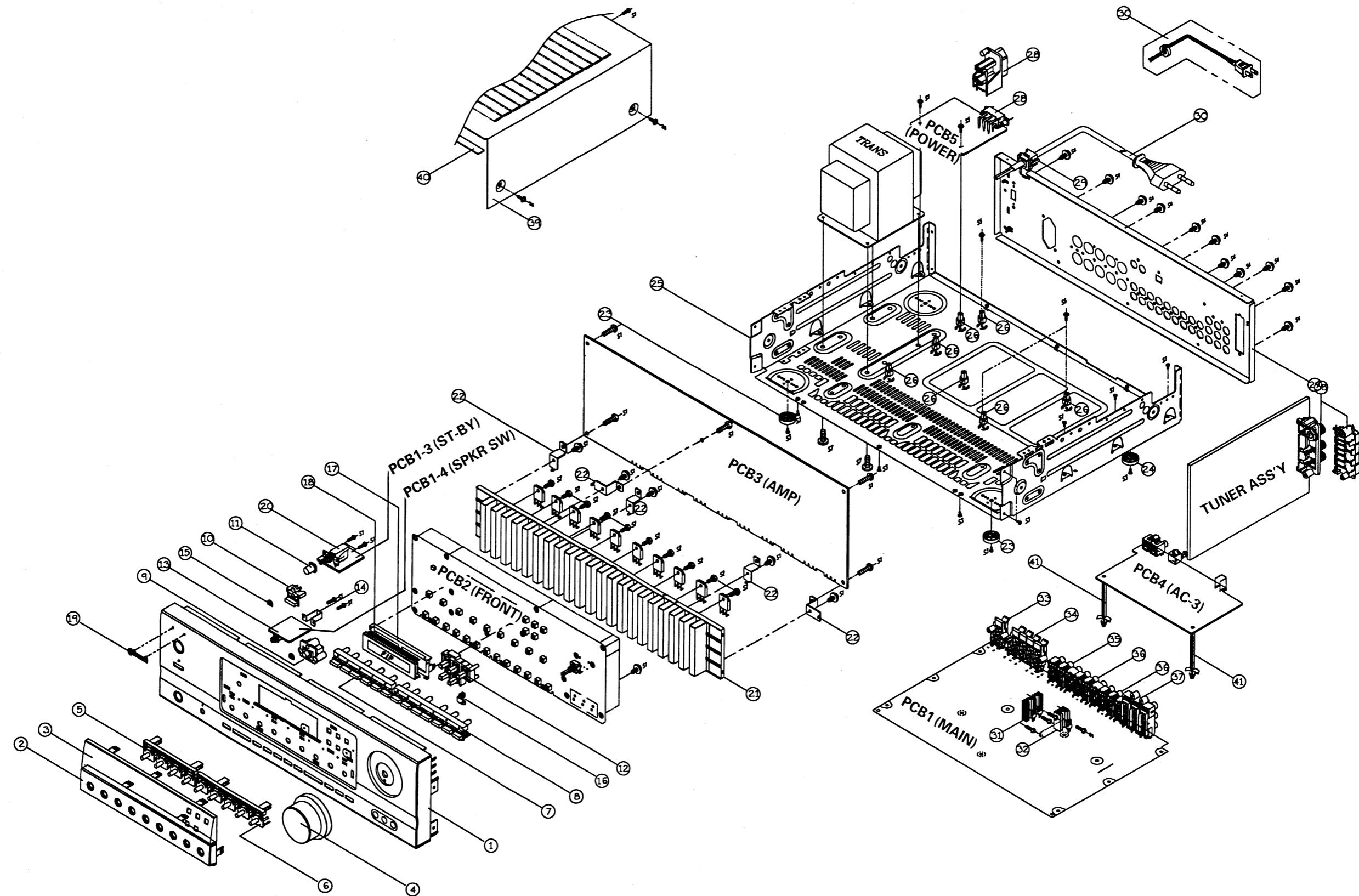
Parts without version mentioned are common ones.

NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.	NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.
	PACKAGE					BUTTON, SPEAKER	5097210671100	1	GOLD(A/C/D)
	CARTON BOX	6017040120570	1		10	BUTTON, STANBY	5090210661000	1	
	CUSHION, SNOW	6230043714010	1			BUTTON, STANBY	5097210661100	1	GOLD(A/C/D)
	FILM SOFT PE	6320040052010	1		11	BUTTON, POWER PUSH	5090210431000	1	
	POLY BAG (330*240*0.05)	6330040062010	1			BUTTON, POWER PUSH	5097210431200	1	GOLD(A/C/D)
	ACCESSORIES				12	BUTTON, RDS	5090210723000	1	RDS
	INSTRUCTION MANUAL	5707047270010	1	A	13	BRACKET, PHONE JACK	G402040161330	1	
	INSTRUCTION MANUAL	5707047270020	1	D/RDS	14	SHIELD	3070045816010	1	
	INSTRUCTION MANUAL	5707047270030	1	C	15	INDICATOR	5160041003010	2	
	WARRANTY CARD	5727041620020	1	RDS	16	INDICATOR	5160040643010	1	
	WARRANTY CARD	5727041650010	1	A/C/D	17	HOLDER, FLT	432004078101A	1	
	CARD, SAFETY SHEET	5777040850010	1	A	18	DISPLAY, FLT	K530000360030	1	
	REMOCON	8300012300260	1		19	BADGE, SHERWOOD	5637040371010	1	
	REMOCON	8300012300290	1	GOLD(A/C/D)	20	BADGE, SHERWOOD EUROPE	5637210031010	1	GOLD(A/C/D)
	ANTENNA, AM LOOP STAND-TYP	E601010000000	1		21	PUSH SW, SDDL-005-S	G000122006030	1	
	ANTENNA, WIRE	E605010010000	1		22	HEAT SINK, POWER	2120200088010	1	
	BATTERY, DRY	G670001R50010	1		23	BRACKET, HEAT SINK	4010056906010	5	
	MATCHING TRANS (US)	L109284007100	1	A	24	FOOT PL (H.S)	4007040201010	2	
	MATCHING TRANS (EUR)	L109284007200	1	C/D/RDS	25	FOOT PL	4000040201010	2	
	CABINET & CHASSIS				26	CHASSIS, MAIN	3200200026010	1	
1	FRONT PANEL	3067210301060	1	A/C/D	27	SPACER	4300040561010	7	RDS
	FRONT PANEL	3067210301070	1	RDS	28	CHASSIS, BACK	3207210326110	1	A
	FRONT PANEL	3067210301190	1	GOLD(A/C/D)	29	CHASSIS, BACK	3207210326120	1	RDS
2	DECORATION, CAP	5127210081010	1		30	POWER SOCKET	3207210326130	1	D
	DECORATION, CAP	5127210081110	1	GOLD(A/C/D)	31	POWER SOCKET	3207210326140	1	C
3	WINDOW, DISPLAY	5077210343000	1	A/C/D	32	CORD ASS'Y	G435000130000	1	A
	WINDOW, DISPLAY	5077210353000	1	RDS	33	CORD ASS'Y (10A/125V)	G435000130010	1	C
	WINDOW, DISPLAY	5077210343010	1	GOLD(A/C/D)	34	CORD ASS'Y (6A/250V)	508000970020	1	D/RDS
4	VOLUME KNOB	5080210281000	1		35	HEAT SINK TR	L068020030080	1	
	VOLUME KNOB	5087210281100	1	GOLD(A/C/D)	36	HEAT SINK TR	L068040090010	1	
5	BUTTON, SELECTION "A"	5090210681000	1		37	TER, BOARD PUSH 2P	2120044298010	1	
	BUTTON, SELECTION "A"	5097210681100	1	GOLD(A/C/D)	38	TER, BOARD SCREW 2P	G592040490010	1	A
6	BUTTON, SELECTION "B"	5090210691000	1		39	TER, BOARD PUSH 8P	G611021078110	1	RDS
	BUTTON, SELECTION "B"	5097210691100	1	GOLD(A/C/D)	40	TER, BOARD SCREW 8P	G598041680010	1	A
7	BUTTON, FUNTION "A"	5090210701000	1		41	TER, RCA 6PIN	G614081036000	1	RDS
	BUTTON, FUNTION "A"	5097210701100	1	GOLD(A/C/D)	42	TER, RCA 6PIN	G603060046060	1	
8	BUTTON, FUNTION "B"	5090210711000	1		43	TER, RCA 9PIN	G603060046020	2	
	BUTTON, FUNTION "B"	5097210711100	1	GOLD(A/C/D)	44	ANT TERMINAL	G607901220070	1	
9	BUTTON, SPEAKER	5090210671000	1		45	ANT TERMINAL	G590040470000	1	D
					46	TOP CABINET	G594040530000	1	A
					47	TOP CABINET	3007041236060	1	

◎ A → USA (120V/60Hz), C → CHINA (220V/50Hz)
 D → EUR (230V/50Hz), G → RDS (230V/50Hz)

EXPLODED VIEW

Model No. : RD-6106/G/RDS



ELECTRICAL PARTS LIST

◆ Parts without Parts NO are not supplied.

Parts without version mentioned are common ones.

◎ A → USA (120V/60Hz), C → CHINA (220V/50Hz), D → EUR (230V/50Hz), G → RDS (230V/50Hz)

REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.
PCB1	ASSEMBLY P.C.BOARD MAIN	7025HK9910010	A	
PCB1	ASSEMBLY P.C.BOARD MAIN	7025HK9910020	RDS	
PCB1	ASSEMBLY P.C.BOARD MAIN	7025HK9910030	D	
PCB1	ASSEMBLY P.C.BOARD MAIN	7025HK9910040	C	

CAPACITORS

C101	CERAMIC CHIP HIK	0.01 uF	50V	K	D011103777200	1
C102	ELECT GE 85C	2.2 uF	50V	M	D0402R2087100	1
C103	CERAMIC CHIP HIK	0.01 uF	50V	K	D011103777200	1
C104/C105	CERAMIC HIK AXIAL	560 pF	50V	K	D005561277520	2
C106	CERAMIC HIK AXIAL	0.1 uF	50V	Z	D005104597530	1
C107	ELECT GE 85C	4.7 uF	50V	M	D0404R7087100	1
C108/C109	ELECT GE 85C	330 uF	10V	M	D040331082060	2
C110/C111	ELECT GE 85C	10 uF	50V	M	D040100087050	2
C112/C113	ELECT GE 85C	2200 uF	25V	M	D040222084200	2
C114-C116	FILM POLYESTER	0.047 uF	100V	J	D02047306C060	3
C117	ELECT GE 85C	10 uF	50V	M	D040100087050	1
C118	ELECT GE 85C	4700 uF	25V	M	D040472084210	1
C119-C121	FILM POLYESTER	0.047 uF	100V	J	D02047306C060	3
C122/C123	FILM POLYESTER	0.1 uF	250V	K	D02010407H080	2
C124/C125	ELECT GE 85C	6800 uF	63V	M	D040682088360	2
C126-C128	FILM POLYESTER	0.1 uF	250V	K	D02010407H080	3
C129	ELECT GE 85C	330 uF	10V	M	D040331082060	1
C4	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	1
C401	CERAMIC HIK AXIAL	0.01 uF	16V	M	D005103773530	1
C402	CERAMIC HIK AXIAL	0.022 uF	25V	Z	D005223594520	1
C403	CERAMIC HIK AXIAL	0.01 uF	16V	M	D005103773530	1
C404	CERAMIC HIK AXIAL	0.001 uF	50V	K	D005102177530	1
C405	CERAMIC CHIP HIK	0.01 uF	50V	K	D011103777200	1
C406	CERAMIC HIK AXIAL	100 pF	50V	K	D005101177520	1
C407	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	1
C408L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C409L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C410L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C411L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C412L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C413L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C414L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C415L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C416L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C417L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C418L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C419L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C420L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C421L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C422L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C423L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C424-C427	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	4
C428	ELECT GE 85C	47 uF	25V	M	D040470084100	1
C430	ELECT GE 85C	47 uF	25V	M	D040470084100	1
C432-C434	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	3

REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.				
C435L/R	ELECT GE 85C	4.7 uF	50V	M	D0404R7087100	2	C901FL	FILM POLYESTER	0.1 uF	63V	K	D020104078060	1
C436/C437	CERAMIC CHIP HIK	0.022 uF	50V	K	D011223777200	2	C901FR	FILM POLYESTER	0.1 uF	63V	K	D020104078060	1
C438L/R	ELECT GE 85C	4.7 uF	50V	M	D0404R7087100	2	C901SL	FILM POLYESTER	0.1 uF	63V	K	D020104078060	1
C439	ELECT GE 85C	10 uF	50V	M	D040100087050	1	C901SR	FILM POLYESTER	0.1 uF	63V	K	D020104078060	1
C441	ELECT GE 85C	10 uF	50V	M	D040100087050	1	C902FC	FILM POLYESTER	0.1 uF	63V	K	D020104078060	1
C443-C445	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	3	C902FL	FILM POLYESTER	0.1 uF	63V	K	D020104078060	1
C446/C447	ELECT GE 85C	47 uF	25V	M	D040470084100	2	C902FR	FILM POLYESTER	0.1 uF	63V	K	D020104078060	1
C448/C449	ELECT GE 85C	470 uF	16V	M	D040471083020	2	C902SL	FILM POLYESTER	0.1 uF	63V	K	D020104078060	1
C450	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1	C902SR	FILM POLYESTER	0.1 uF	63V	K	D020104078060	1
C451-C453	ELECT GE 85C	100 uF	16V	M	D040101083100	3	C903FC	FILM POLYESTER	0.0047 uF	100V	J	D02047206C060	1
C454L/R	ELECT GE 85C	0.33 uF	50V	M	D040R33087100	2	C903FL	FILM POLYESTER	0.0047 uF	100V	J	D02047206C060	1
C455L/R	CERAMIC CHIP HIK	0.015 uF	50V	K	D011153777200	2	C903FR	FILM POLYESTER	0.0047 uF	100V	J	D02047206C060	1
C456L/R	CERAMIC CHIP HIK	8200 pF	50V	K	D011822777200	2	C903SL	FILM POLYESTER	0.0047 uF	100V	J	D02047206C060	1
C457L/R	ELECT GE 85C	3.3 uF	50V	M	D0403R3087050	2	C903SR	FILM POLYESTER	0.0047 uF	100V	J	D02047206C060	1
C458L/R	CERAMIC CHIP HIK	1000 pF	50V	K	D011102777200	2	C904FC	FILM POLYESTER	0.0047 uF	100V	J	D02047206C060	1
C459	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	1	C904FL	FILM POLYESTER	0.0047 uF	100V	J	D02047206C060	1
C460/C461	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2	C904FR	FILM POLYESTER	0.0047 uF	100V	J	D02047206C060	1
C463	ELECT GE 85C	100 uF	16V	M	D040101083100	1	C904SL	FILM POLYESTER	0.0047 uF	100V	J	D02047206C060	1
C464L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2	C904SR	FILM POLYESTER	0.0047 uF	100V	J	D02047206C060	1
C465L/R	ELECT GE 85C	4.7 uF	50V	M	D0404R7087100	2							
C466	ELECT GE 85C	4.7 uF	50V	M	D0404R7087100	1							
C467L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2							
C468L/R	ELECT GE 85C	4.7 uF	50V	M	D0404R7087100	2							
C469	ELECT GE 85C	4.7 uF	50V	M	D0404R7087100	1							
C470													

REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.						
IC102	KIA7915PI, REGULATOR	J126791500030	1		R115-R117	CHIP THICK	22 kohm	1/10W	J	C200022360200	3									
IC103	KA7805, REGULATOR	J126780500270	1		R118	CHIP THICK	10 kohm	1/10W	J	C200010360200	1	R447	CHIP THICK	470 ohm	1/10W	J	C200047160200	1		
IC401	TC9273N-007, ANALOG	J080927300000	1		R119	CHIP THICK	47 kohm	1/10W	J	C200047360200	1	R448-R450	CARBON FILM	1 kohm	1/5W	J	C00001026P520	3		
IC402	NJM2068MD, OP	J121206800030	1		R120	CHIP THICK	100 kohm	1/10W	J	C200010460200	1	R451	CARBON FILM	750 ohm	1/5W	J	C00007516P520	1		
IC403	NJU7312AL, LOGIC	J040731200010	1		R121	CHIP THICK	3.3 kohm	1/10W	J	C200033260200	1	R452	CHIP THICK	2.7 kohm	1/10W	J	C200027260200	1		
IC404	LA7952, MONITOR SW	J171795200000	1		R122	CARBON FILM	1 kohm	1/5W	J	C00001026P520	1	R453L/R	CHIP THICK	100 ohm	1/10W	J	C200010160200	2		
IC406	M62446FP, ELECT VR	J084624460010	1		R123	CHIP THICK	1.8 kohm	1/10W	J	C200018260200	1	R458L/R	CHIP THICK	100 kohm	1/10W	J	C200010460200	2		
IC407-IC409	NJM2068MD, OP	J121206800030	3		R124	CARBON FILM	2.2 kohm	1/5W	J	C00002226P520	1	R459	CHIP THICK	100 kohm	1/10W	J	C200010460200	1		
	JACKS				R125	CHIP THICK	1.8 kohm	1/10W	J	C200018260200	1	R460/R461	CARBON FILM	47 ohm	1/5W	J	C00004706P520	2		
JACK401	TER, RCA 9PIN	G607901220070	1		R126	METAL FILM 100PPM	10 ohm	1W		C060010065520	1	R462L/R	CHIP THICK	39 kohm	1/10W	J	C200039360200	2		
JACK402	TER, RCA 6PIN	G603060046020	1		R127	CHIP THICK	27 kohm	1/10W	J	C200027360200	1	R463L/R	CHIP THICK	2 kohm	1/10W	J	C200020260200	2		
JACK403	TER, RCA 6PIN	G603060046020	1		R128/R129	CARBON FILM	27 kohm	1/5W	J	C00002736P520	2	R464L/R	CHIP THICK	12 kohm	1/10W	J	C200012360200	2		
JACK404	TER, RCA 6PIN	G603060046060	1		R130/R131	METAL FILM 100PPM	3.3 ohm	2W		C0603R3066520	2	R465L/R	CHIP THICK	1 kohm	1/10W	J	C200010260200	2		
	COILS				R134-R136	CARBON FILM	51 kohm	1/5W	J	C00005136P520	3	R466	CARBON FILM	4.7 kohm	1/5W	J	C00004726P520	1		
L901SL	INDUCTOR COIL, J9000031	D330900001320	1		R137	METAL FILM 100PPM	3.3 ohm	2W		C0603R3066520	1	R468L/R	CHIP THICK	100 kohm	1/10W	J	C200010460200	2		
L901SR	INDUCTOR COIL, J9000031	D330900001320	1		R140/R141	CARBON FILM	15 kohm	1/5W	J	C00001536P520	2	R469	CHIP THICK	39 kohm	1/10W	J	C200039360200	1		
	TRANSISTORS				R142	CARBON FILM	4.7 kohm	1/5W	J	C00004726P520	1	R470	CHIP THICK	2 kohm	1/10W	J	C200020260200	1		
Q101	KTC3200BL, NPN	J5023200B0050	1		R143	CARBON FILM	1 kohm	1/5W	J	C00001026P520	1	R471	CHIP THICK	12 kohm	1/10W	J	C200012360200	1		
Q102	KTA1268BL, PNP	J5001268B0050	1		R143	CARBON FILM	10 kohm	1/5W	J	C00001036P520	1	R472	CARBON FILM	1 kohm	1/5W	J	C00001026P520	1		
Q103/Q104	KTA1266Y, PNP	J5001266Y0050	2		R144	CHIP THICK	1.8 kohm	1/10W	J	C200018260200	1	R473	CHIP THICK	4.7 kohm	1/10W	J	C200047260200	1		
Q105	DTC114YS, NPN	J6020114Y0050	1		R401	CHIP THICK	22 kohm	1/10W	J	C200022360200	1	R475	CHIP THICK	100 kohm	1/10W	J	C200010460200	1		
Q106	KSA992F, PNP	J5000992F0050	1		R402	CHIP THICK	220 kohm	1/10W	J	C200022460200	1	R476L/R	CHIP THICK	39 kohm	1/10W	J	C200039360200	2		
Q107-Q112	2SC1740SR, NPN	J5021740S0010	6		R403L/R	CHIP THICK	1 kohm	1/10W	J	C200010260200	2	R477L/R	CHIP THICK	2 kohm	1/10W	J	C200020260200	2		
Q401/Q402	KTC3880S-O, NPN	J5223880S00210	2		R404L/R	CHIP THICK	1 kohm	1/10W	J	C200010260200	2	R478L/R	CHIP THICK	12 kohm	1/10W	J	C200012360200	2		
Q403	DTC114YK, NPN	J5220114Y0210	1		R405L/R	CHIP THICK	1 kohm	1/10W	J	C200010260200	2	R479L/R	CARBON FILM	1 kohm	1/5W	J	C00001026P520	2		
Q405	DTC114YK, NPN	J5220114Y0210	1		R406L/R	CHIP THICK	1 kohm	1/10W	J	C200010260200	2	R480	CHIP THICK	4.7 kohm	1/10W	J	C200047260200	1		
Q406	DTA114YK, PNP	J5200114Y0210	1		R407L/R	CHIP THICK	1 kohm	1/10W	J	C200010260200	2	R482L/R	CHIP THICK	100 kohm	1/10W	J	C200010460200	2		
Q407L/R	DTC323TK, NPN	J502323000050	2		R408L/R	CHIP THICK	1 kohm	1/10W	J	C200010260200	2	R483	CHIP THICK	39 kohm	1/10W	J	C200039360200	1		
Q408	DTC114YK, NPN	J5220114Y0210	1		R409L/R	CHIP THICK	1 kohm	1/10W	J	C200010260200	2	R484	CHIP THICK	1.2 kohm	1/10W	J	C200012260200	1		
Q409	DTA114YK, PNP	J5200114Y0210	1		R410L/R	CHIP THICK	2.2 kohm	1/10W	J	C200022260200	2	R485	CHIP THICK	27 kohm	1/10W	J	C200027360200	1		
Q410	DTC323TK, NPN	J502323000050	1		R412L/R	CHIP THICK	2.2 kohm	1/10W	J	C200022260200	2	R486	CARBON FILM	1 kohm	1/5W	J	C00001026P520	1		
Q411	DTC114YK, NPN	J5220114Y0210	1		R413L/R	CHIP THICK	100 kohm	1/10W	J	C200010460200	2	R487	CARBON FILM	4.7 kohm	1/5W	J	C00004726P520	1		
Q412	DTA114YK, PNP	J5200114Y0210	1		R414	CHIP THICK	8.2 kohm	1/10W	J	C200082260200	1	R489	CHIP THICK	100 kohm	1/10W	J	C200010460200	1		
Q413L/R	DTC323TK, NPN	J502323000050	2		R415	CHIP THICK	100 kohm	1/10W	J	C200010460200	1	R491	CARBON FILM	47 kohm	1/5W	J	C00004736P520	1		
Q414	DTC114YK, NPN	J5220114Y0210	1		R416	CHIP THICK	2.2 kohm	1/10W	J	C200022260200	1	R494L	CHIP THICK	330 ohm	1/10W	J	C200033160200	1		
Q415	DTA114YK, PNP	J5200114Y0210	1		R418/R419	CARBON FILM	100 ohm	1/5W	J	C00001016P520	2	R495L	CHIP THICK	47 kohm	1/10W	J	C200047360200	1		
Q416	KTC2875B, NPN	J5222875B0010	1		R420-R422	CARBON FILM	1 kohm	1/5W	J	C00001026P520	3	R497	CHIP THICK	2.2 kohm	1/10W	J	C200022260200	1		
Q417L	2SK117Y, FET	J5441170Y0050	1		R423L/R	CHIP THICK	47 kohm	1/10W	J	C200047360200	2	R901SL	METAL FILM 100PPM	10 ohm	1W		C060010065520	1		
	RESISTORS				R424L/R	CHIP THICK	47 kohm	1/10W	J	C200047360200	2	R901SR	METAL FILM 100PPM	10 ohm	1W		C060010065520	1		
R101	CHIP THICK	220 ohm	1/10W	J	C200022160200	1	R425L/R	CHIP THICK	100 ohm	1/10W	J	C200010460200	2	R902FC	METAL FILM 100PPM	10 ohm	1W	J	C060010065050	1
R102-R104	CHIP THICK	2.2 kohm	1/10W	J	C20															

REF NO.	DESCRIPTION			PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION			PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION			PARTS NO.	Q'TY	VER.			
J601	CHIP THICK	0 ohm	1/10W	J	C200000060200	1	Q417R	2SK117Y, FET			J5441170Y0050	1		IC301	CXP828P60Q-1, CPU			J020828601010	1				
J602	CHIP THICK	0 ohm	1/8W	J	C200000061300	1	Q418	2SK117Y, FET			J5441170Y0050	1		IC302	TD47330BD, CPU			J020733000010	1	RDS			
J603/J604	CHIP THICK	0 ohm	1/10W	J	C200000060200	2	Q419	DTA114YK, PNP			J5200114Y0210	1			TRANSISTORS								
J605-J607	CHIP THICK	0 ohm	1/8W	J	C200000061300	3	Q420	DTC114YK, NPN			J5220114Y0210	1			RESISTORS								
J611	CHIP THICK	0 ohm	1/10W	J	C200000060200	1	R490	CHIP THICK	47 kohm	1/10W	J	C200047360200	1	Q301-Q305	DTC114YS, NPN			J6020114Y0050	5				
J613-J616	CHIP THICK	0 ohm	1/8W	J	C200000061300	4	R492	CHIP THICK	3300 ohm	1/10W	J	C200033160200	1			RESISTORS							
J621/J622	CHIP THICK	0 ohm	1/8W	J	C200000061300	2	R493	CHIP THICK	47 kohm	1/10W	J	C200047360200	1			RESISTORS							
J624/J625	CHIP THICK	0 ohm	1/10W	J	C200000060200	2	R494R	CHIP THICK	3300 ohm	1/10W	J	C200033160200	1			RESISTORS							
J627	CHIP THICK	0 ohm	1/10W	J	C200000060200	1	R495R	CHIP THICK	47 kohm	1/10W	J	C200047360200	1			RESISTORS							
J628	CHIP THICK	0 ohm	1/8W	J	C200000061300	1	R496	CHIP THICK	1 kohm	1/10W	J	C200010260200	1			RESISTORS							
A	CN.WIRE 210MM (1P)				L000211012210	1																	
	HEAT SINK				2120043538030	1		PCB2	ASSEMBLY P.C.BOARD FRONT			7025HK9910011	A		R305-R307	CARBON FILM							
	HEAT SINK				2120044298010	1		PCB2	ASSEMBLY P.C.BOARD FRONT			7025HK9910021	RDS		R308/R309	CARBON FILM							
	PUSH SW, SDDL-005-S				G000122006030	1		PCB2	ASSEMBLY P.C.BOARD FRONT			7025HK9910031	D		R310	CARBON FILM							
	PCB1-1	ASSEMBLY P.C.BOARD GUIDE A						PCB2	ASSEMBLY P.C.BOARD FRONT			7025HK9910041	C		R312/R313	CARBON FILM							
	CLAMP101	CLAMP, WIRE			4330000120000	1			CAPACITORS						R314	CARBON FILM							
	J1-J8	CN,WIRE 1P			L045084006040	1		C301/C302	CERAMIC HIK AXIAL	820 pF	50V	K	D005821287520	1		R315	CARBON FILM						
	PCB1-2	ASSEMBLY P.C.BOARD HEAD PHONE						C303	ELECT GE 85C	47 uF	16V	M	D040470083100	1		R316	CARBON FILM						
	CN103	CN.WIRE 360MM (4P)			L000361040030	1	C/D/RDS	C304	CERAMIC HIK AXIAL	0.1 uF	50V	50V	D005104597530	1		R316	CARBON FILM						
	CN304	CN.WIRE 360MM (4P)			L000361040030	1	A	C305	CERAMIC HIK AXIAL	100 pF	50V	50V	D005101177520	1		R318	CARBON FILM						
		SHIELD			3070045816010	1		C306	ELECT GE 85C	4.7 uF	50V	M	D0404R7087100	1		R318	CARBON FILM						
		JACK, D6.5 (HTJ064-11D)			G402040161330	1		C307	ELECT GE 85C	0.1 uF	50V	M	D0400R1087050	1		R319	CARBON FILM						
	PCB1-3	ASSEMBLY P.C.BOARD ST-BY						C308	DOUBLE LAYER(70)	0.047 uF	70UA	5.5V	D090473904010	1		R320	CARBON FILM						
	CP302	CN.WAFER 2.0MM (6P)			L101220060000	1		C309	ELECT GE 85C	47 uF	16V	M	D040470083100	1		R321	CARBON FILM						
	CP304	CN.WAFER 2.0MM (4P)			L101220040000	1	C/D/RDS	C310	CERAMIC HIK AXIAL	0.1 uF	50V	50V	D005104597530	1		R322/R323	CARBON FILM						
	CP304	CN, WIRE FLAT (2651)			L352104083300	1	A	C311/C312	FILM POLYESTER	0.047 uF	100V	J	D02047306C060	2		R324/R325	CARBON FILM						
	LED301	LED, SLR56VCTB7			K500052101121	1		C313	ELECT GE 85C	10 uF	50V	M	D040100087050	1		R326	CARBON FILM						
	SW308	TACT SW, SKQNAF			G180000210030	1		C314	ELECT GE 85C	33 uF	35V	M	D040330085100	1		R326	CARBON FILM						
	PCB1-4	ASSEMBLY P.C.BOARD SPKR SW						C317-C320	CERAMIC HIK AXIAL	100 pF	50V	50V	D005101177520	4		R327	CARBON FILM						
	CN303	CN, WIRE FLAT (2651)			L352104083300	1	C/D/RDS	C321	ELECT GE 85C	10 uF	50V	M	D040100087050	1	RDS	R328-R337	CARBON FILM						
	CP303	CN.WAFER 2.0MM (4P)			L101220040010	1	A	C322	CERAMIC HIK AXIAL	0.1 uF	50V	50V	D005104597530	1	RDS	R338-R340	CARBON FILM						
	LED302	LED, SLR56VCTB7			K500052101121	1		C323	CERAMIC HIK AXIAL	270 pF	50V	K	D005271277520	1	RDS	R341/R342	CARBON FILM						
	SW307	TACT SW, SKQNAF			G180000210030	1		C324	ELECT GE 85C	10 uF	50V	M	D040100087050	1	RDS	R343	CARBON FILM						
	PCB1-5	ASSEMBLY P.C.BOARD GUIDE B						C325	CERAMIC HIK AXIAL	0.1 uF	50V	50V	D005104597530	1	RDS	R344	CARBON FILM						
	CLAMP102	CLAMP, WIRE			4330000120000	1		C326/C327	CERAMIC T.C AXIAL	27 pF	50V	50V	D001270167520	2	RDS	R345	CARBON FILM						
	J9-16	CN,WIRE 1P			L045084006040	1		C328	CERAMIC HIK AXIAL	0.01 uF	16V	16V	D005103773530	1		R346/R347	CARBON FILM						
	PCB1-6	ASSEMBLY P.C.BOARD CENEMA EQ						C329/C330	CERAMIC HIK AXIAL	0.1 uF	50V	50V	D005104597530	2		R348	CARBON FILM						
	C508	ELECT GE 85C	1 uF	50V	M	D040010087050	1	CN301	CN.WIRE 400MM (8P)			L000401080010	1		R349	CARBON FILM							
	C509R	CERAMIC CHIP T.C	470 pF	50V	J	D010471167200	1	CN302	CN.WIRE 80MM (6P)			L000800060040	1		SW301-SW306	TACT SW, SKQNAF							
	C510R	CERAMIC CHIP HIK	1500 pF	50V	K	D011152777200	1	CN303	CN.WIRE 380MM (10P)			L000381100010	1		SW309	TACT SW, SKQNAF							
	C511	CERAMIC CHIP T.C	470 pF	50V	J	D010471167200	1	CN305	CN.WIRE 450MM (5P)			L022054584320	1		SW310-SW314	TACT SW, SKQNAF							
	C512	CERAMIC CHIP HIK	1500 pF	50V	K	D011152777200	1	CP301	CN.FPC 1.25MM (29P)			L131524922920	1		SW315-SW329	TACT SW, SKQNAF							
	CN405	CN.WAFER 2.0MM (6P)			L101352370610	1			CONNECTORS						DZ301	MTZJ5.1B, ZENER							
	CP404	CN.WAFER 2.0MM (3P)			L101352370310	1		D301-D305	1SS133T, SWITCHING			K000013300520	5		FIP301	DISPLAY, FLT							
	D410L/R	1SS133T, SWITCHING			K000013300520	2		D310-D320	1SS133T, SWITCHING			K000013300520	11		J301-J352	CN,WIRE 1P							
	D411	1SS133T, SWITCHING			K000013300520	1			DIODES						L301	INDUCTOR COIL, 10UH							
	J17	CN.WIRE 1P			L045084006040	1			INTEGRATED CIRCUITS						LED303	LED, SLR56VCTB7							
									MISCELLANEOUS						LUG301	RING, TER WIRE 120MM (1P)							

REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.	
NR301	NETWORK A-TYPE 100KJ*9-H5.08*2.54-10P	C180104101500	1		C855	ELECT GE 85C 1 uF	50V M	D040100087050	1	IC808	AK4527-VQ, ANALOG	J080452700010	1		
SEN301	REMOCON MODULE, NJL64H380A	E940643800000	1		C856L/R	ELECT GE 85C 10 uF	50V M	D040100087050	2	IC809-IC813	NJM2068MD, LINEAR OP	J121206800030	5		
VOL301	ENCODER SW, EC16B24304	G121162430400	1		C857L/R	CERAMIC CHIP HIK 1500 pF	50V K	D011152777200	2						
X-TAL301	RESONATOR, CST10.0MTW	E830100000050	1		C858L/R	CERAMIC CHIP HIK 1200 pF	50V K	D011122777200	2						
XTAL302	CRYSTAL, 4.332MHz	E800433200070	1	RDS	C859L/R	CERAMIC CHIP HIK 1000 pF	50V K	D011102777200	2	BD801-BD805	BEAD COIL, HB-IT2012-121JT	761101000020	5		
1	TER, RCA 3PIN	G606040300000	1		C860/C861	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	2	L801	INDUCTOR COIL, 4.7UH	D3304R7000150	1		
	HOLDER, FLT	432004078101A	1		C862L/R	ELECT GE 85C 10 uF	50V M	D040100087050	2						
PCB3	ASSEMBLY P.C. BOARD AC-3	7025HK9910012			C863L/R	CERAMIC CHIP HIK 3300 pF	50V K	D01132777200	2						
	CAPACITORS				C864	ELECT GE 85C 10 uF	50V M	D040100087050	1	Q802/Q803	DTA114YK, PNP	J5200114Y0210	2		
C801	CERAMIC CHIP T.C 22 pF	50V J	D010220167200	1	C865	CERAMIC CHIP HIK 1500 pF	50V K	D011152777200	1	Q804	DTC114YK, NPN	J5220114Y0210	1		
C802	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	1	C866	FILM POLYESTER 0.1 uF	63V K	D020104078060	1	Q805L/R	KTC2874B, NPN	J502287400010	2		
C803	CERAMIC CHIP T.C 22 pF	50V J	D010220167200	1	C867	FILM POLYESTER 0.012 uF	100V J	D02012306C060	1	Q806/Q807	KTC2874B, NPN	J502287400010	2		
C804	CERAMIC CHIP HIK 0.01 uF	50V K	D011103777200	1	C868/C869	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	2	Q808L/R	KTC2874B, NPN	J502287400010	2		
C805	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	1	C870	ELECT GE 85C 10 uF	50V M	D040100087050	1	Q809L/R	2SK117Y, FET	J5441170Y0050	2		
C806	CERAMIC CHIP T.C 22 pF	50V J	D010220167200	1	C871	CERAMIC CHIP HIK 3300 pF	50V K	D01132777200	1	Q810	DTA114YK, PNP	J5200114Y0210	1		
C807	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	1	C872	ELECT GE 85C 10 uF	50V M	D040100087050	1	Q811	DTC114YS, NPN	J6020114Y0050	1		
C808	CERAMIC CHIP T.C 22 pF	50V J	D010220167200	1	C873	CERAMIC CHIP HIK 1500 pF	50V K	D011152777200	1	Q812	DTA114YS, PNP	J6000114Y0010	1		
C809	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	1	C874	CERAMIC CHIP HIK 1000 pF	50V K	D011102777200	1						
C810	ELECT GE 85C 100 uF	16V M	D040101083100	1	C875	CERAMIC CHIP HIK 1200 pF	50V K	D011122777200	1						
C811/C812	CERAMIC CHIP T.C 22 pF	50V J	D010220167200	2	C876	ELECT GE 85C 10 uF	50V M	D040100087050	1	R801	CHIP THICK 82 ohm	1/10W J	C200082060200	1	
C813	ELECT GE 85C 100 uF	16V M	D040101083100	1	C877	CERAMIC CHIP HIK 3300 pF	50V K	D01132777200	1	R802	CHIP THICK 100 kohm	1/10W J	C200010460200	1	
C814	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	1	C878L/R	ELECT GE 85C 10 uF	50V M	D040100087050	2	R803	CHIP THICK 18 kohm	1/10W J	C200018360200	1	
C815	ELECT GE 85C 47 uF	16V M	D040470083100	1	C879L/R	CERAMIC CHIP HIK 1500 pF	50V K	D011152777200	2	R804	CHIP THICK 4.7 kohm	1/10W J	C200047260200	1	
C816/C817	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	2	C880L/R	CERAMIC CHIP HIK 1000 pF	50V K	D011102777200	2	R805	CHIP THICK 220 ohm	1/10W J	C200022160200	1	
C818	ELECT GE 85C 470 uF	6.3V E	D040471081100	1	C881L/R	CERAMIC CHIP HIK 1200 pF	50V K	D011122777200	2	R806	CHIP THICK 4.7 kohm	1/10W J	C200047260200	1	
C819	CERAMIC CHIP HIK 1000 pF	50V K	D011102777200	1	C882/C883	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	2	R807	CHIP THICK 470 ohm	1/10W J	C200047160200	1	
C820	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	1	C884L/R	ELECT GE 85C 10 uF	50V M	D040100087050	2	R808	CHIP THICK 100 kohm	1/10W J	C200010460200	1	
C821	ELECT GE 85C 470 uF	6.3V T	D040471081100	1	C885L/R	CERAMIC CHIP HIK 3300 pF	50V K	D01132777200	2	R809	CHIP THICK 82 ohm	1/10W J	C200082060200	1	
C822/C823	CERAMIC CHIP T.C 27 pF	50V J	D010270167200	2	C886L/R	CERAMIC CHIP T.C 100 pF	50V J	D010101167200	2	R810	CHIP THICK 18 kohm	1/10W J	C200018360200	1	
C824	CERAMIC CHIP T.C 470 pF	50V J	D010471167200	1	C887L/R	CERAMIC CHIP T.C 100 pF	50V J	D010101167200	2	R811	CHIP THICK 220 ohm	1/10W J	C200022160200	1	
C825	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	1	C888L/R	ELECT GE 85C 10 uF	50V M	D040100087050	2	R812	CHIP THICK 4.7 kohm	1/10W J	C200047260200	1	
C826L/R	ELECT GE 85C 10 uF	50V M	D040100087050	2	C889	ELECT GE 85C 1 uF	50V M	D040010087050	1	R813	CHIP THICK 100 kohm	1/10W J	C200010460200	1	
C828L/R	ELECT GE 85C 10 uF	50V M	D040100087050	2	C890	ELECT GE 85C 100 uF	16V M	D040101083100	1	R814	CHIP THICK 220 ohm	1/10W J	C200022160200	1	
C830	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	1	C891	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	1	R815	CHIP THICK 47 kohm	1/10W J	C200047360200	1	
C832L/R	ELECT GE 85C 10 uF	50V M	D040100087050	2	C894	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	1	R816	CARBON FILM 3.3 ohm	1/5W J	C0003R306P520	1	
C833L/R	CERAMIC CHIP HIK 1500 pF	50V K	D011152777200	2						R817-R820	CHIP THICK 33 ohm	1/10W J	C200033060200	4	
C834	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	1						R821	CHIP THICK 1 kohm	1/10W J	C200010260200	1	
C835/C836	ELECT GE 85C 100 uF	16V M	D040101083100	2	CP801	CN.WAFER 2.0MM (10P)		L101220100000	1	R822-R829	CHIP THICK 10 kohm	1/10W J	C200010360200	8	
C837/C838	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	2	CP802	CN.WAFER 2.0MM (4P)		L101220040000	1	R830-R833	CARBON FILM 10 kohm	1/5W J	C00001036P520	4	
C839	CERAMIC CHIP T.C 100 pF	50V J	D010101167200	1	CP803	CN.WAFER 2.0MM (14P)		L101220140000	1	R834-R836	CHIP THICK 10 kohm	1/10W J	C200010360200	3	
C841/C842	CERAMIC CHIP T.C 100 pF	50V J	D010101167200	2					R837	CHIP THICK 0 ohm	1/10W J	C200000060200	1		
C843	CERAMIC CHIP HIK 0.1 uF	50V Z	D011104597200	1	D801-D804	KDS160, SWITCHING CHIP		K005016000010	4	R837	CHIP THICK 470 ohm	1/10W J	C200047160200	1	
C844	ELECT GE 85C 100 uF	16V M	D040101083100	1	D805-D807	1SS133T, SWITCHING		K000013300520	3	R838	CHIP THICK 1 Mohm	1/10W J	C200010560200	1	
C845	ELECT GE 85C 470 uF	25V M	D040471084130	1	D806	KDS160, SWITCHING CHIP		K005016000010	1	R839	CHIP THICK 10 kohm</td				

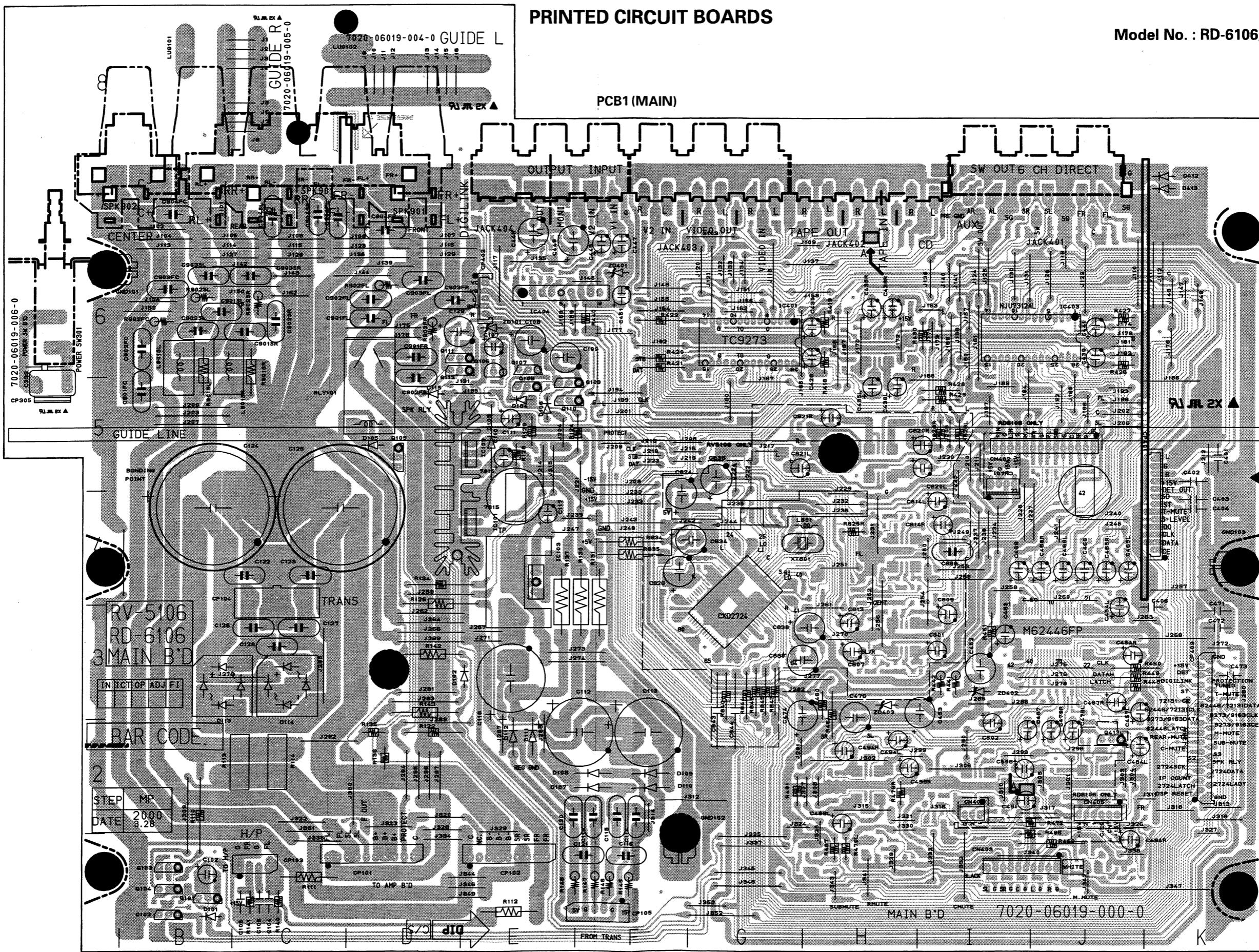
REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.				
R849-R851	CARBON FILM	33 ohm 1/5W	J	C00003306P520	3	R914L	CARBON FILM	3.9 ohm 1/5W	J	C00003926P520	1	C210C	ELECT GE 85C	47 uF	50V	M	D040470087060	1
R853	CARBON FILM	33 ohm 1/5W	J	C00003306P520	1	R914R	CHIP THICK	3.9 kohm 1/10W	J	C200039260200	1	C210L/R	ELECT GE 85C	47 uF	50V	M	D040470087060	2
R854	CHIP THICK	33 ohm 1/10W	J	C200033060200	1	R915	CARBON FILM	1 kohm 1/5W	J	C00001026P520	1	C210SL	ELECT GE 85C	47 uF	50V	M	D040470087060	1
R855	CARBON FILM	1.5 kohm 1/5W	J	C00001526P520	1	R917	CHIP THICK	1 kohm 1/10W	J	C200010260200	1	C210SR	ELECT GE 85C	47 uF	50V	M	D040470087060	1
R856-R858	CHIP THICK	1 kohm 1/10W	J	C200010260200	3	R918	CHIP THICK	100 kohm 1/10W	J	C200010460200	1	C211C	ELECT GE 85C	47 uF	50V	M	D040470087060	1
R859	CARBON FILM	1 kohm 1/5W	J	C00001026P520	1	R919	CHIP THICK	1 Mohm 1/10W	J	C200010560200	1	C211L/R	ELECT GE 85C	47 uF	50V	M	D040470087060	2
R860/R861	CHIP THICK	1 kohm 1/10W	J	C200010260200	2	R920	CHIP THICK	1 kohm 1/10W	J	C200010260200	1	C211SL	ELECT GE 85C	47 uF	50V	M	D040470087060	1
R862	CHIP THICK	22 kohm 1/10W	J	C200022360200	1	R921-R925	CHIP THICK	22 kohm 1/10W	J	C200022360200	5	C211SR	ELECT GE 85C	47 uF	50V	M	D040470087060	1
R863	CHIP THICK	1 kohm 1/10W	J	C200010260200	1	R926	CHIP THICK	6.2 ohm 1/10W	J	C200062260200	1	C212C	ELECT GE 85C	10 uF	50V	M	D040100087050	1
R864	CARBON FILM	1 kohm 1/5W	J	C00001026P520	1	R926/R927	CHIP THICK	4.7 kohm 1/10W	J	C200047260200	2	C212L/R	ELECT GE 85C	10 uF	50V	M	D040100087050	2
R865/R866	METAL FILM 100PPM	47 ohm 1/4W	J	C060047063050	2	R927	CHIP THICK	27 kohm 1/10W	J	C200027360200	1	C212SL	ELECT GE 85C	10 uF	50V	M	D040100087050	1
R867	CHIP THICK	1 kohm 1/10W	J	C200010260200	1	R961L/R	CHIP THICK	3.3 Mohm 1/10W	J	C200033560200	2	C212SR	ELECT GE 85C	10 uF	50V	M	D040100087050	1
R868	CHIP THICK	100 kohm 1/10W	J	C200010460200	1							C214C	CERAMIC T.C AXIAL	1 pF	50V	K	D001010077530	1
R871	CHIP THICK	1 kohm 1/10W	J	C200010260200	1							C214L/R	CERAMIC T.C AXIAL	1 pF	50V	K	D001010077530	2
R873	CARBON FILM	33 ohm 1/5W	J	C00003306P520	1	IC804	MODULE, GP1F37R			E100137000010	1	C214SL	CERAMIC T.C AXIAL	1 pF	50V	K	D001010077530	1
R874L/R	CHIP THICK	100 kohm 1/10W	J	C200010460200	2	J801-J851	CN, WIRE 1P			L045084006040	51	C214SR	CERAMIC T.C AXIAL	1 pF	50V	K	D001010077530	1
R875L/R	CHIP THICK	1 kohm 1/10W	J	C200010260200	2	J880-J885	CHIP THICK	0 ohm 1/10W	J	C200000060200	6	C215C	CERAMIC HIK AXIAL	180 pF	50V	K	D005181177520	1
R876L/R	CHIP THICK	3.3 kohm 1/10W	J	C200033260200	2	JACK801	TER, RCA 2PIN			G601200099040	1	C215L/R	CERAMIC HIK AXIAL	180 pF	50V	K	D005181177520	2
R877L/R	CHIP THICK	3.3 kohm 1/10W	J	C200033260200	2	LED801	LED, SLR56VCTB7			K500052101121	1	C215SL	CERAMIC HIK AXIAL	180 pF	50V	K	D005181177520	1
R878L/R	CHIP THICK	2.4 kohm 1/10W	J	C200024260200	2	XT801	CRYSTAL, 12.288MHz			E80012R288020	1	C215SR	CERAMIC HIK AXIAL	180 pF	50V	K	D005181177520	1
R879L/R	CHIP THICK	3.3 kohm 1/10W	J	C200033260200	2					3070045526010	1							
R880L/R	CHIP THICK	2.2 kohm 1/10W	J	C200022260200	2					SCREW, +2S 3*8 B-TYPE BK/BH								
R881L/R	CHIP THICK	47 kohm 1/10W	J	C200047360200	2					B020030083B10	1							
R882L/R	CHIP THICK	3.3 kohm 1/10W	J	C200033260200	2													
R883	CHIP THICK	100 kohm 1/10W	J	C200010460200	1													
R884	CHIP THICK	1 kohm 1/10W	J	C200010260200	1													
R885/R886	CHIP THICK	15 kohm 1/10W	J	C200015360200	2													
R887	CHIP THICK	1.8 kohm 1/10W	J	C200018260200	1													
R888	CHIP THICK	10 kohm 1/10W	J	C200010360200	1													
R889	CHIP THICK	100 ohm 1/10W	J	C200010160200	1													
R890	CHIP THICK	100 kohm 1/10W	J	C200010460200	1													
R891	CHIP THICK	3.3 kohm 1/10W	J	C200033260200	1													
R892	CHIP THICK	100 kohm 1/10W	J	C200010460200	1													
R893	CHIP THICK	1 kohm 1/10W	J	C200010260200	1													
R894/R895	CHIP THICK	3.3 kohm 1/10W	J	C200033260200	2													
R896	CHIP THICK	2.4 kohm 1/10W	J	C200024260200	1													
R897	CHIP THICK	3.3 kohm 1/10W	J	C200033260200	1													
R898	CHIP THICK	2.2 kohm 1/10W	J	C200022260200	1													
R899	CHIP THICK	47 kohm 1/10W	J	C200047360200	1													
R900	CHIP THICK	3.3 kohm 1/10W	J	C200033260200	1													
R901L/R	CHIP THICK	100 kohm 1/10W	J	C200010460200	2													
R902L/R	CHIP THICK	1 kohm 1/10W	J	C200010260200	2													
R903L/R	CHIP THICK	3.3 kohm 1/10W	J	C200033260200	2													
R904L/R	CHIP THICK	3.3 kohm 1/10W	J	C200033260200	2													
R905L/R	CHIP THICK	2.4 kohm 1/10W	J	C200024260200	2													
R906L/R	CHIP THICK	3.3 kohm 1/10W	J	C200033260200	2													
R907L/R	CHIP THICK	1.2 kohm 1/10W	J	C200012260200	2													
R908L/R	CHIP THICK	100 kohm 1/10W	J	C200010460200	2													
R909L/R	CHIP THICK	3.3 kohm 1/10W	J	C200033260200	2													
R910L/R	CHIP THICK	10 kohm 1/10W	J	C200010360200	2													
R911L/R	CHIP THICK	10 kohm 1/10W	J	C200010360200	2													
R912L/R	CHIP THICK	10 kohm 1/10W	J	C200010360200	2													
R913L/R	CHIP THICK	10 kohm 1/10W	J	C200010360														

REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.						
Q203SR	KSA992F, PNP	J5000992F0050	1		R206SL	CARBON FILM	750 ohm	1/5W	J	C00007516P520	1	R220SR	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1		
Q204C	KSA992F, PNP	J5000992F0050	1		R206SR	CARBON FILM	750 ohm	1/5W	J	C00007516P520	1	R221C	CARBON FILM	82 ohm	1/5W	J	C00008206P520	1		
Q204L/R	KSA992F, PNP	J5000992F0050	2		R207C	CARBON FILM	470 ohm	1/5W	J	C00004716P520	1	R221L/R	CARBON FILM	82 ohm	1/5W	J	C00008206P520	2		
Q204SL	KSA992F, PNP	J5000992F0050	1		R207L/R	CARBON FILM	470 ohm	1/5W	J	C00004716P520	2	R221SL	CARBON FILM	82 ohm	1/5W	J	C00008206P520	1		
Q204SR	KSA992F, PNP	J5000992F0050	1		R207SL	CARBON FILM	470 ohm	1/5W	J	C00004716P520	1	R221SR	CARBON FILM	82 ohm	1/5W	J	C00008206P520	1		
Q205C	KSC1845F, NPN	J5021845F0000	1		R207SR	CARBON FILM	470 ohm	1/5W	J	C00004716P520	1	R222C	CARBON FILM	82 ohm	1/5W	J	C00008206P520	1		
Q205L/R	KSC1845F, NPN	J5021845F0000	2		R208C	CARBON FILM	68 ohm	1/5W	J	C00006806P520	1	R222L/R	CARBON FILM	82 ohm	1/5W	J	C00008206P520	2		
Q205SL	KSC1845F, NPN	J5021845F0000	1		R208L/R	CARBON FILM	68 ohm	1/5W	J	C00006806P520	2	R222SL	CARBON FILM	82 ohm	1/5W	J	C00008206P520	1		
Q205SR	KSC1845F, NPN	J5021845F0000	1		R208SL	CARBON FILM	68 ohm	1/5W	J	C00006806P520	1	R222SR	CARBON FILM	82 ohm	1/5W	J	C00008206P520	1		
Q206C	KSC1845F, NPN	J5021845F0000	1		R208SR	CARBON FILM	68 ohm	1/5W	J	C00006806P520	1	R223C	CARBON FILM	22 kohm	1/5W	J	C00002236P520	1		
Q206L/R	KSC1845F, NPN	J5021845F0000	2		R209C	CARBON FILM	150 ohm	1/5W	J	C00001516P520	1	R223L/R	CARBON FILM	22 kohm	1/5W	J	C00002236P520	2		
Q206SL	KSC1845F, NPN	J5021845F0000	1		R209L/R	CARBON FILM	150 ohm	1/5W	J	C00001516P520	2	R223SL	CARBON FILM	22 kohm	1/5W	J	C00002236P520	1		
Q206SR	KSC1845F, NPN	J5021845F0000	1		R209SL	CARBON FILM	150 ohm	1/5W	J	C00001516P520	1	R223SR	CARBON FILM	22 kohm	1/5W	J	C00002236P520	1		
Q207C	KSA992F, PNP	J5000992F0050	1		R209SR	CARBON FILM	150 ohm	1/5W	J	C00001516P520	1	R224C	CARBON FILM	22 kohm	1/5W	J	C00002236P520	1		
Q207L/R	KSA992F, PNP	J5000992F0050	2		R210C	CARBON FILM	10 kohm	1/5W	J	C00001036P520	1	R224L/R	CARBON FILM	22 kohm	1/5W	J	C00002236P520	2		
Q207SL	KSA992F, PNP	J5000992F0050	1		R210L/R	CARBON FILM	10 kohm	1/5W	J	C00001036P520	2	R224SL	CARBON FILM	22 kohm	1/5W	J	C00002236P520	1		
Q207SR	KSA992F, PNP	J5000992F0050	1		R210SL	CARBON FILM	10 kohm	1/5W	J	C00001036P520	1	R224SR	CARBON FILM	22 kohm	1/5W	J	C00002236P520	1		
Q208C	KTA1024Y, PNP	J5001024Y0050	1		R210SR	CARBON FILM	10 kohm	1/5W	J	C00001036P520	1	R228C	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	1		
Q208L/R	KTA1024Y, PNP	J5001024Y0050	2		R211C	CARBON FILM	43 kohm	1/5W	J	C00004336P520	1	R228L/R	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	2		
Q208SL	KTA1024Y, PNP	J5001024Y0050	1		R211L/R	CARBON FILM	43 kohm	1/5W	J	C00004336P520	2	R228SL	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	1		
Q208SR	KTA1024Y, PNP	J5001024Y0050	1		R211SL	CARBON FILM	43 kohm	1/5W	J	C00004336P520	1	R228SR	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	1		
Q209C	KTC3206Y, NPN	J5023206Y0050	1		R211SR	CARBON FILM	43 kohm	1/5W	J	C00004336P520	1	R229C	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	1		
Q209L/R	KTC3206Y, NPN	J5023206Y0050	2		R212C	CARBON FILM	1.5 kohm	1/5W	J	C00001526P520	1	R229L/R	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	2		
Q209SL	KTC3206Y, NPN	J5023206Y0050	1		R212L/R	CARBON FILM	1.5 kohm	1/5W	J	C00001526P520	2	R229SL	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	1		
Q209SR	KTC3206Y, NPN	J5023206Y0050	1		R212SL	CARBON FILM	1.5 kohm	1/5W	J	C00001526P520	1	R229SR	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	1		
Q215C	KSC1845F, NPN	J5021845F0000	1		R212SR	CARBON FILM	1.5 kohm	1/5W	J	C00001526P520	1	R230C	CARBON FILM	22 ohm	1/5W	J	C00002206P520	1		
Q215L/R	KSC1845F, NPN	J5021845F0000	2		R213C	CARBON FILM	33 kohm	1/5W	J	C00003336P520	1	R230L/R	CARBON FILM	22 ohm	1/5W	J	C00002206P520	2		
Q215SL	KSC1845F, NPN	J5021845F0000	1		R213L/R	CARBON FILM	33 kohm	1/5W	J	C00003336P520	2	R230SL	CARBON FILM	22 ohm	1/5W	J	C00002206P520	1		
Q215SR	KSC1845F, NPN	J5021845F0000	1		R213SL	CARBON FILM	33 kohm	1/5W	J	C00003336P520	1	R230SR	CARBON FILM	22 ohm	1/5W	J	C00002206P520	1		
	RESISTORS				R213SR	CARBON FILM	33 kohm	1/5W	J	C00003336P520	1	R231C	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	1		
R201C	CARBON FILM	1 kohm	1/5W	J	C00001026P520	1	R214C	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R231L/R	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	2
R201L/R	CARBON FILM	1 kohm	1/5W	J	C00001026P520	2	R214L/R	CARBON FILM	560 ohm	1/5W	J	C00005616P520	2	R231SL	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	1
R201SL	CARBON FILM	1 kohm	1/5W	J	C00001026P520	1	R214SL	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R231SR	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	1
R201SR	CARBON FILM	1 kohm	1/5W	J	C00001026P520	1	R214SR	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R232C	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	1
R202C	CARBON FILM	33 kohm	1/5W	J	C00003336P520	1	R216C	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R232L/R	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	2
R202L/R	CARBON FILM	33 kohm	1/5W	J	C00003336P520	2	R216L/R	CARBON FILM	560 ohm	1/5W	J	C00005616P520	2	R232SL	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	1
R202SL	CARBON FILM	33 kohm	1/5W	J	C00003336P520	1	R216SL	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R232SR	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	1
R202SR	CARBON FILM	33 kohm	1/5W	J	C00003336P520	1	R216SR	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R233C	CARBON FILM	1.8 kohm	1/5W	J	C00001826P520	1
R203C	CARBON FILM	15 ohm	1/5W	J	C00001506P520	1	R217C	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R233L/R	CARBON FILM	1.8 kohm	1/5W	J</td		

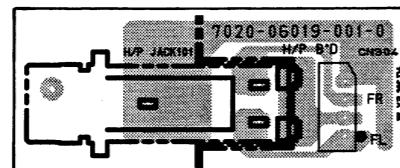
REF NO.	DESCRIPTION		PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION		PARTS NO.	Q'TY	VER.		
R237C	CARBON FILM	39 ohm	1/5W	J	C00003906P520	1	R710	METAL FILM 100PPM	ERC-12UGK335	C060033574530	1	A	
R237L/R	CARBON FILM	39 ohm	1/5W	J	C00003906P520	2	R712/R713	CARBON FILM	10 kohm	1/5W	J	C00001036P520	2
R238C	CARBON FILM	39 ohm	1/5W	J	C00003906P520	1	R714	CARBON FILM	15 kohm	1/5W	J	C00001536P520	1
R238L/R	CARBON FILM	39 ohm	1/5W	J	C00003906P520	2	R716	METAL FILM 100PPM	47 ohm	1/4W	J	C060047063050	1
R239C	CARBON FILM	39 ohm	1/5W	J	C00003906P520	1	R718	CARBON FILM	1.8 kohm	1/5W	J	C00001826P520	1
R239L/R	CARBON FILM	39 ohm	1/5W	J	C00003906P520	2	MISCELLANEOUS						
R240C	CARBON FILM	39 ohm	1/5W	J	C00003906P520	1	RY710	RELAY, HR-CR7-DC12V/10A		G680000210000	1		
R240L/R	CARBON FILM	39 ohm	1/5W	J	C00003906P520	2	T710	POWER TRANS. STAV3160/1		8200280960010	1	A	
R245L/R	CARBON FILM	22 kohm	1/5W	J	C00002236P520	2	T710	TRANS ST/BY, 230V/50Hz		8201280000010	1	C/D/RDS	
MISCELLANEOUS						F710	FUSE CLIP		G645000050010	1	D		
CN,WIRE 1P						F711	FUSE CLIP		G645000050010	1	C/RDS		
L045084006040						F712	FUSE CLIP		G645000050010	1			
PCB5	ASSEMBLY P.C.BOARD POWER	7025HK9910014			A	GND714	TERMINAL		3790040876010	1			
PCB5	ASSEMBLY P.C.BOARD POWER	7025HK9910024			RDS	IC710	KA7806, REGULATOR		J126780600120	1			
PCB5	ASSEMBLY P.C.BOARD POWER	7025HK9910034			D	J710-J713	CN,WIRE 1P		L045084006040	4			
PCB5	ASSEMBLY P.C.BOARD POWER	7025HK9910044			C	J715	CN,WIRE 1P		L045084006040	1			
CAPACITORS						J717KA	CN,WIRE 1P		L045084006040	1	A		
C710-C712	FILM POLYESTER	0.047 uF	100V	J	D02047306C060	3	J718	CN,WIRE 1P		L045084006040	1		
C713	CERAMIC SEMI DISC	0.1 uF	50V	Z	D006104597050	1	POWER SOCKET						
C714	CERAMIC AC(SAFETY)	DE7150-487F	472MVAI		D00847208K03D	1	POWER SOCKET						
C717	ELECT GE 85C	470 uF	25V	M	D040471084130	1	POWER SOCKET						
C718	ELECT GE 85C	1 uF	50V	M	D040010087050	1	POWER SOCKET						
C719	ELECT GE 85C	100 uF	50V	M	D040101087100	1	★ MAIN PCB ASS'Y (PCB1) INCLUDES THE FOLLOWING BOARDS.						
CONNECTORS						① THE ASS'Y PCB GUIDE A (PCB1-1).							
CP710	CN.WAFER 2.5MM (4P)				L102526700400	1	② THE ASS'Y PCB HEAD PHONE (PCB1-2).						
CP711	CN.WAFER 3.96MM				L104353280200	1	③ THE ASS'Y PCB ST-BY (PCB1-3).						
CP712	CN.WAFER 7.92MM (2P)				L108039602010	1	④ THE ASS'Y PCB SPKR SW (PCB1-4).						
CP713	CN.WAFER 3.96MM				L104353280200	1	⑤ THE ASS'Y PCB GUIDE B (PCB1-5).						
CP714	CN.WAFER 2.0MM (8P)				L101220080000	1	⑥ THE ASS'Y PCB CENEMA EQ (PCB1-6).						
DIODES													
D710-D713	1N4004A, RECTIFIER 1N				K040400400520	4							
D714-D717	1SS133T, SWITCHING				K000013300520	4							
ZD711	MTZJ7.5B, ZENER				K06007R544520	1							
ZD712/ZD713	MTZJ15B, ZENER				K06015R044520	2							
ZD715	MTZJ4.3B, ZENER				K06004R344520	1							
FUSES													
F711	FUSE, 250V-T2.5A				G650252251160	1	C/D/RDS						
F712	FUSE, 250V-T4A				G650402251160	1	C/D/RDS						
F712	FUSE, 125V-S6A				G650602121150	1	A						
COILS													
L710-L712	INDUCTOR COIL, 10UH				D330100700520	3							
TRANSISTORS													
Q711	DTC114YS, NPN				J6020114Y0050	1							
Q712	KSA916Y, PNP				J5000916Y0050	1	A/C						
Q912	KSA916Y, PNP				J5000916Y0050	1	D/RDS						

PRINTED CIRCUIT BOARDS

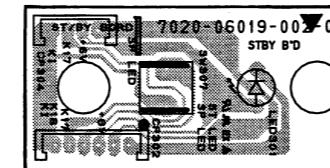
Model No. : RD-6106/G/RDS



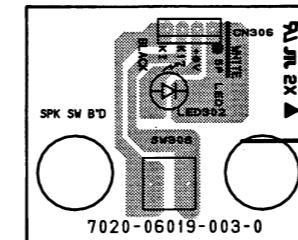
PCB1-2 (H/P)



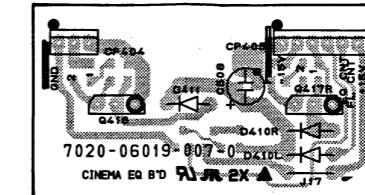
PCB1-3 (ST-BY)



PCB1-4 (SPKR SW)

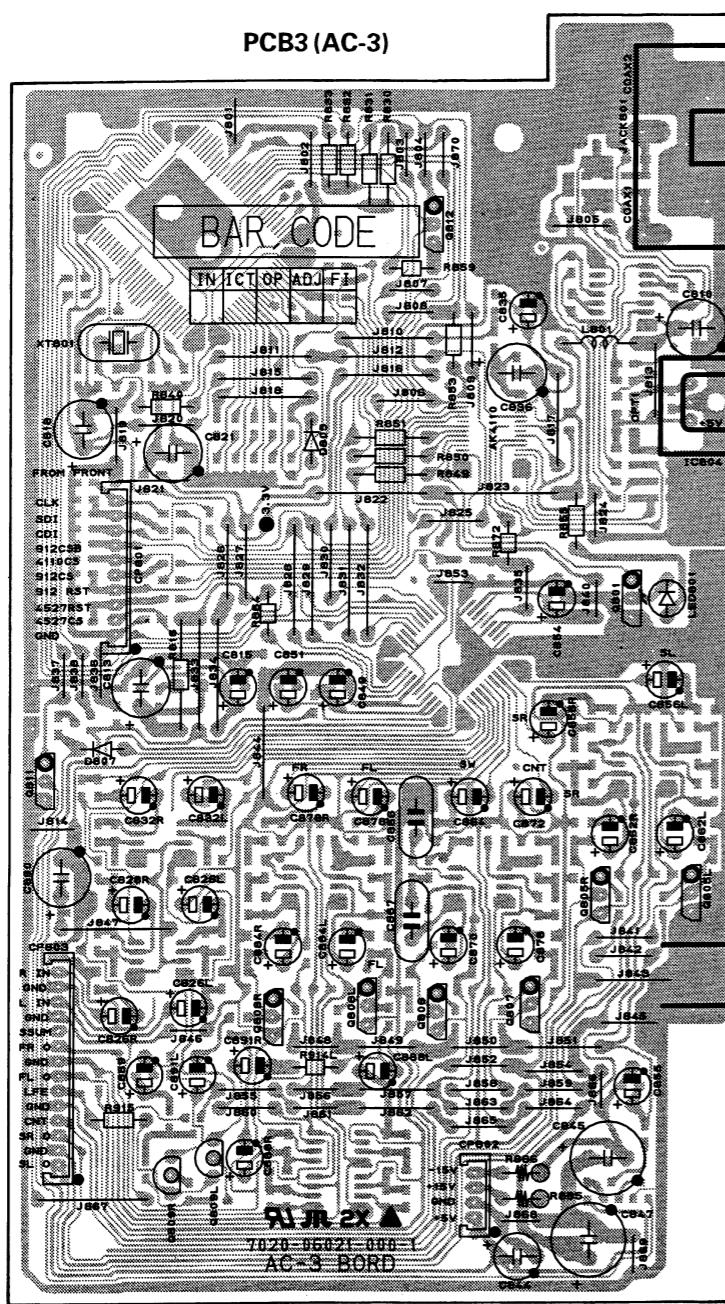


PCB1-6 (CINEMA EQ)



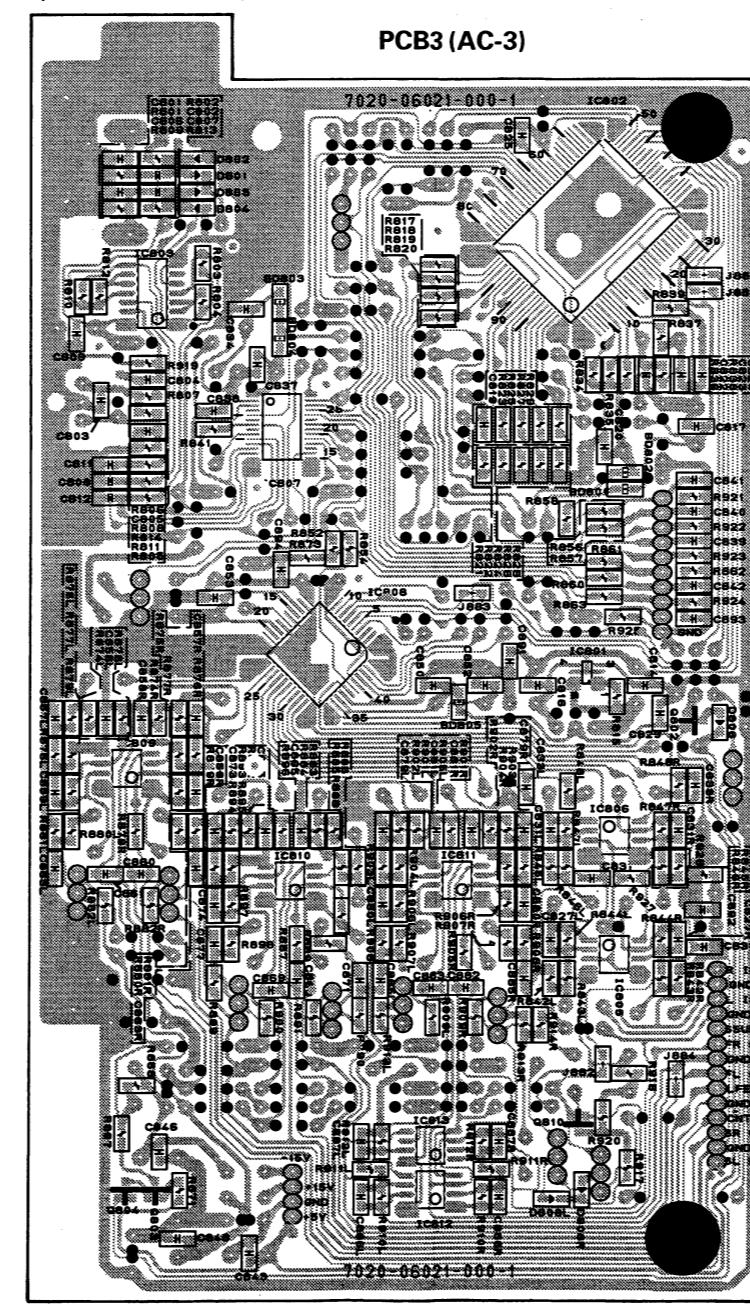
(TOP VIEW)

PCB3 (AC-3)

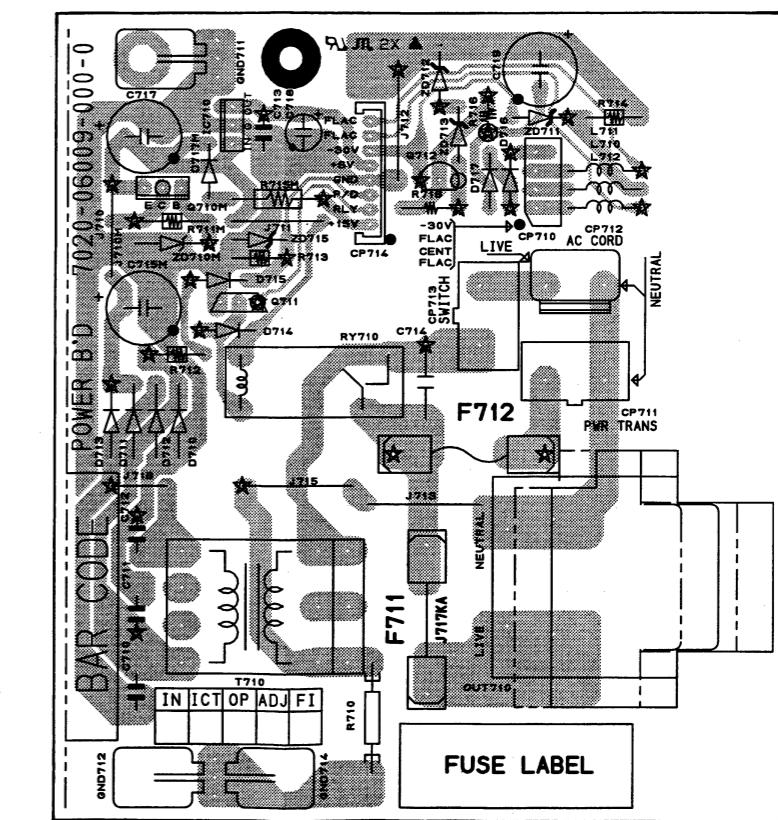


(BOTTOM VIEW)

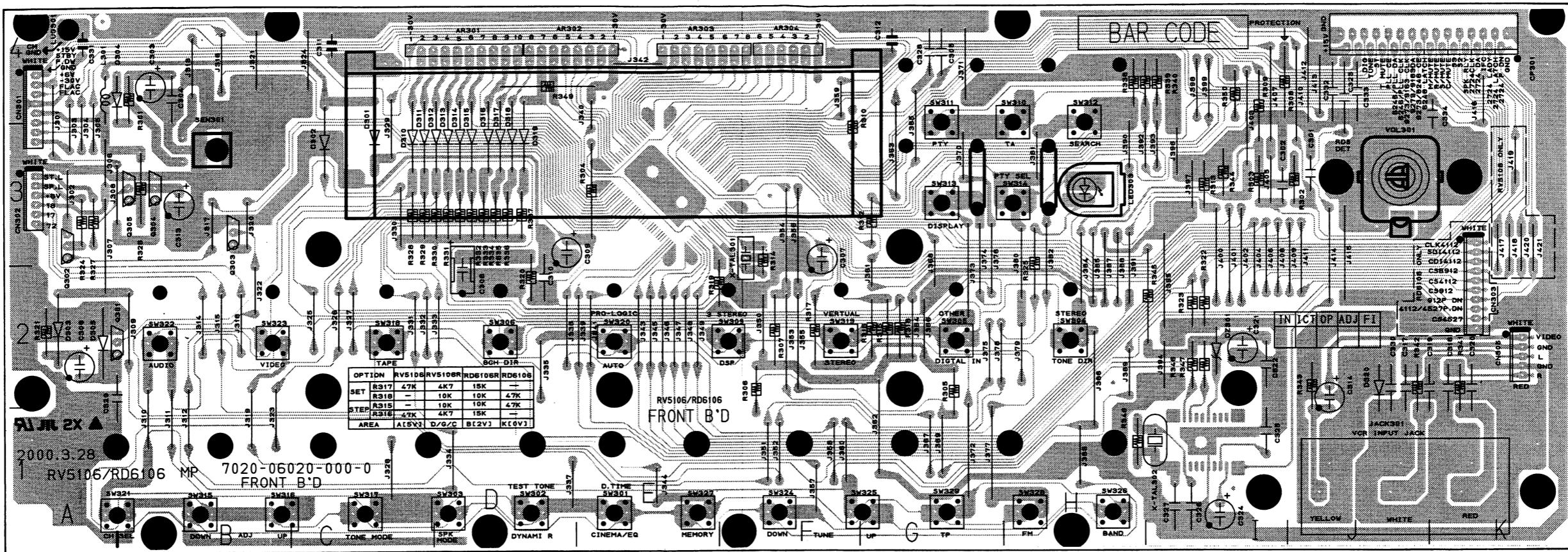
PCB3 (AC-3)



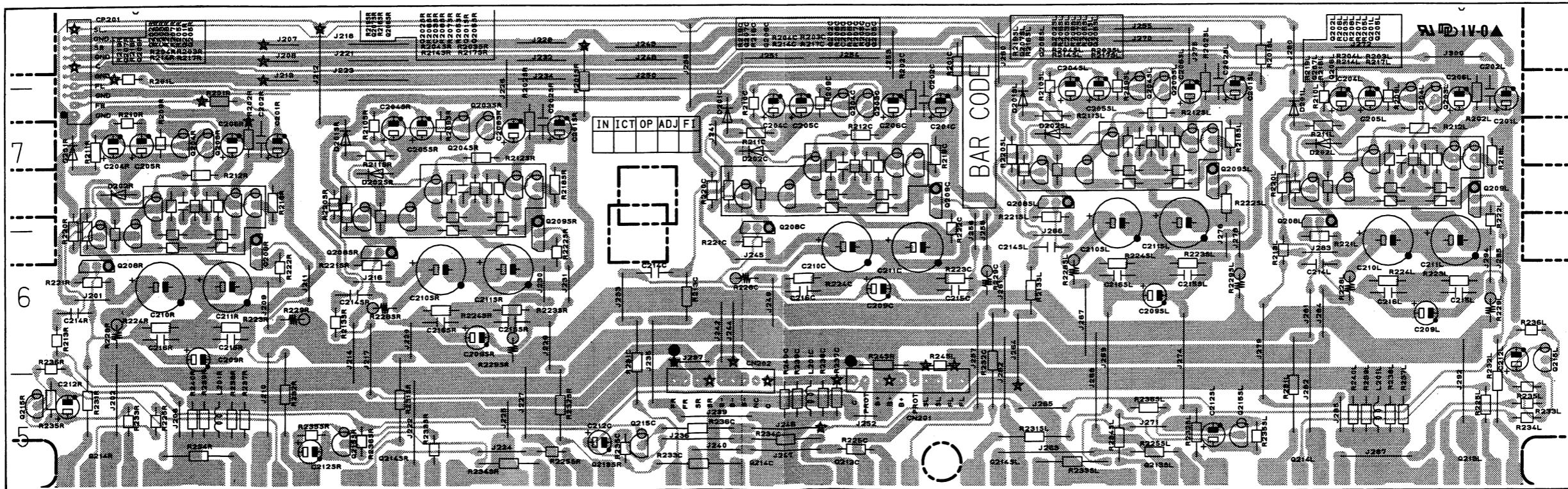
PCB5 (POWER)



PCB2 (FRONT)

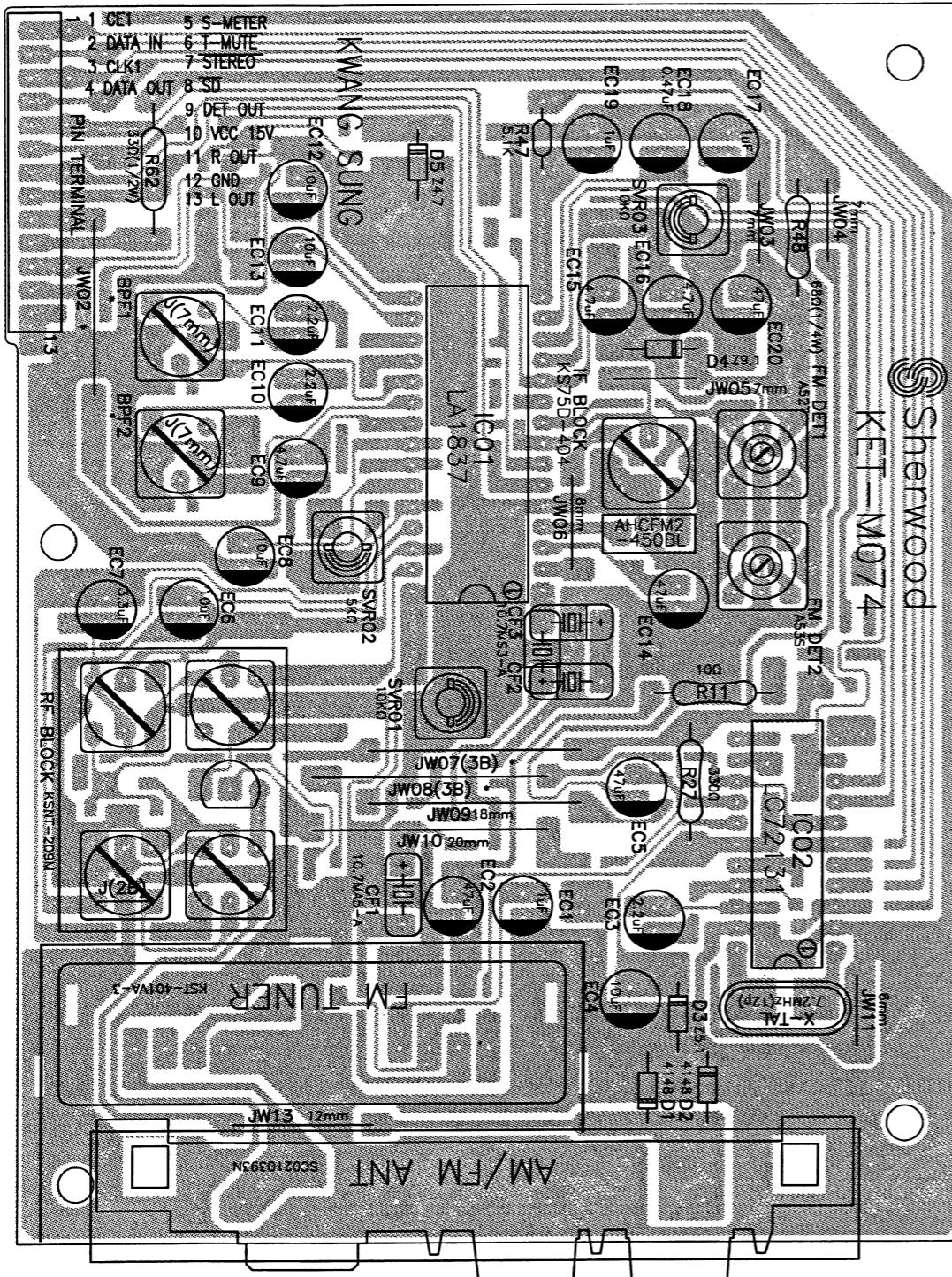


PCB4 (AMP)



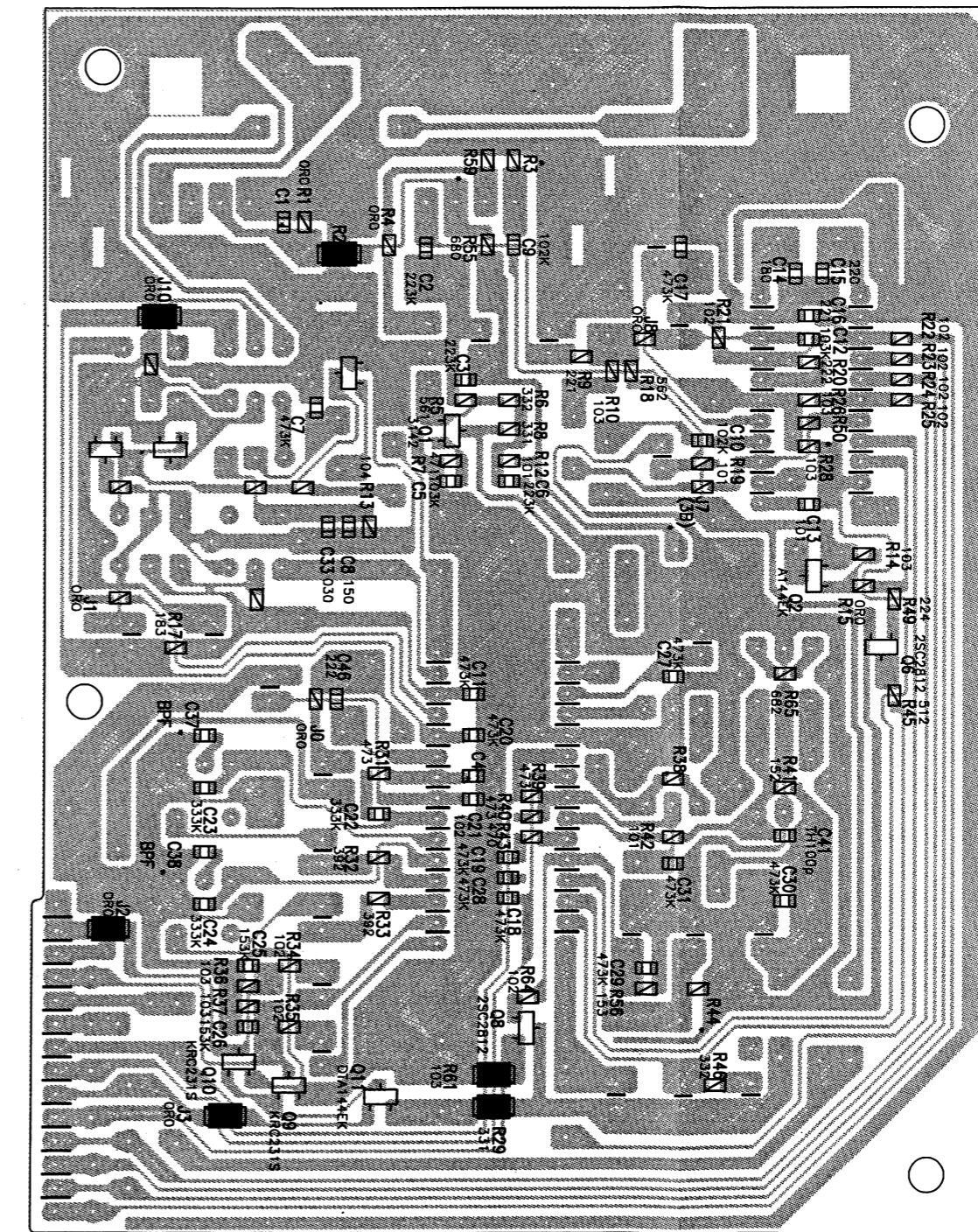
TOP VIEW

TUNER ASS'Y (A ONLY)



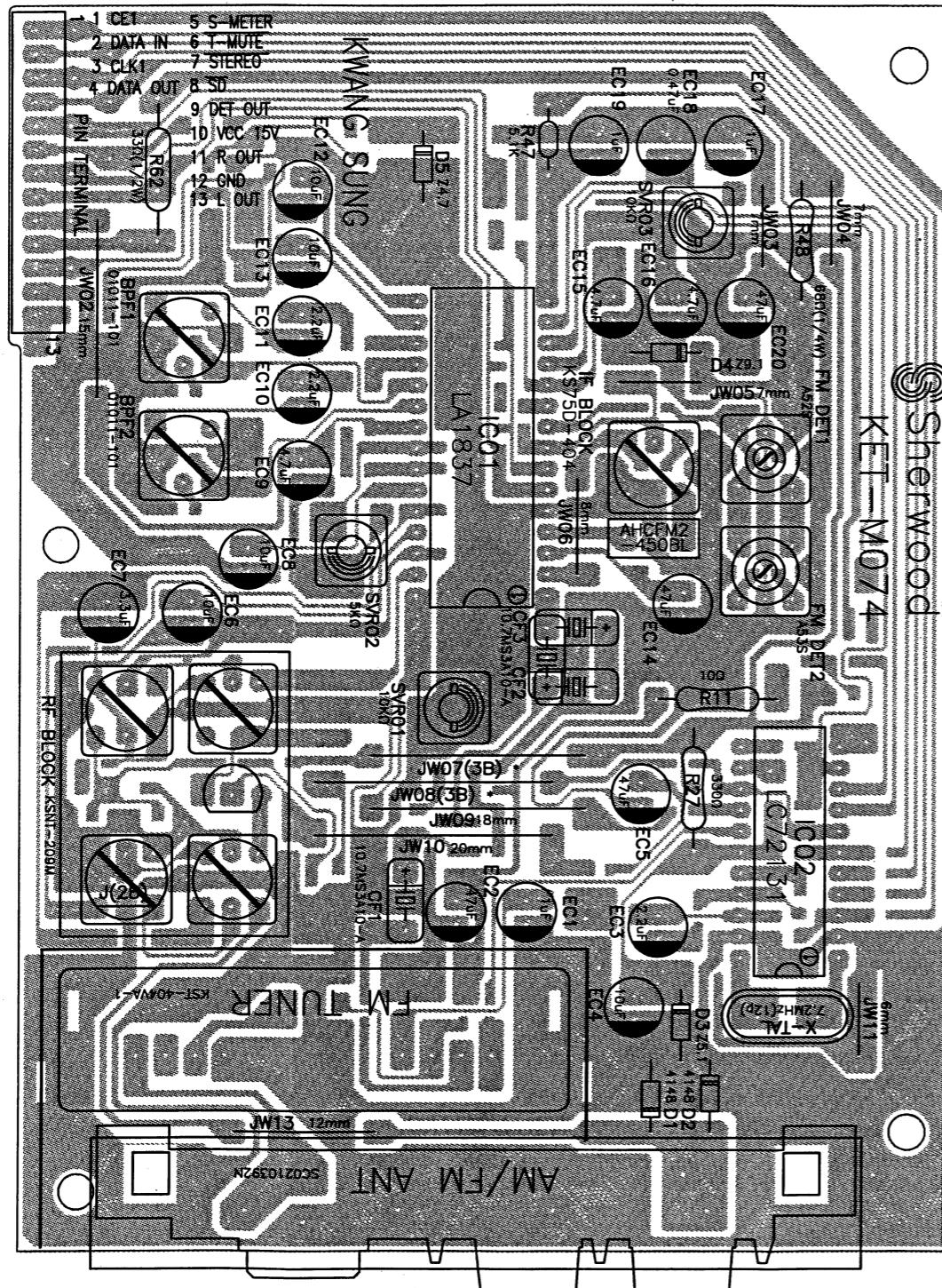
BOTTOM VIEW

TUNER ASS'Y (A ONLY)



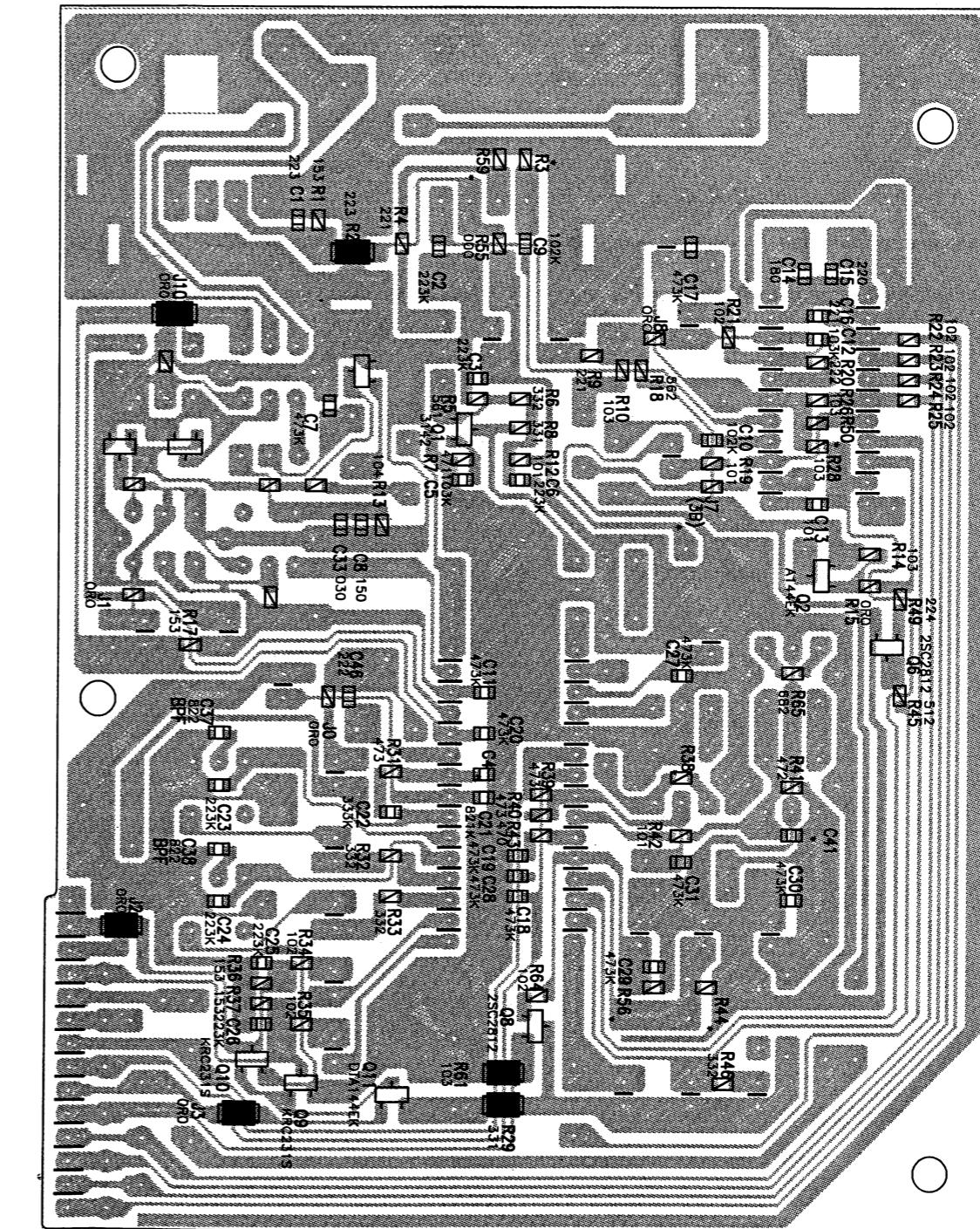
TOP VIEW

TUNER ASS'Y (C/D/RDS ONLY)



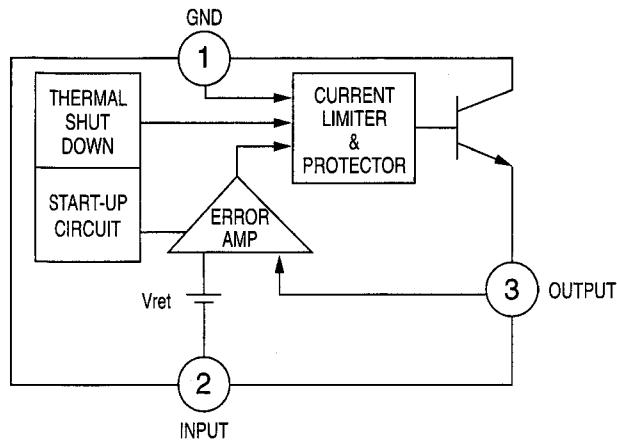
BOTTOM VIEW

TUNER ASS'Y (C/D/RDS ONLY)

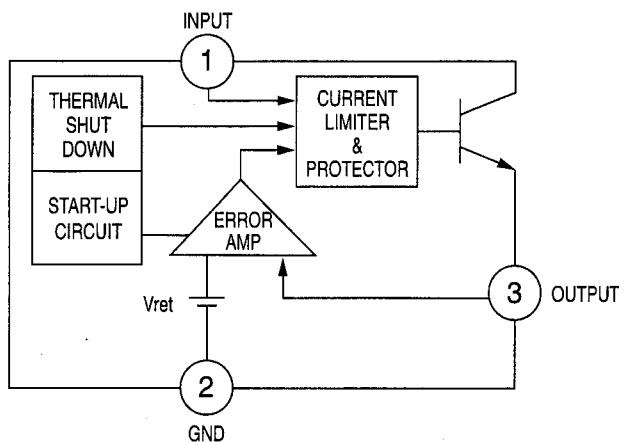


IC'S FUNCTIONAL BLOCK DIAGRAM

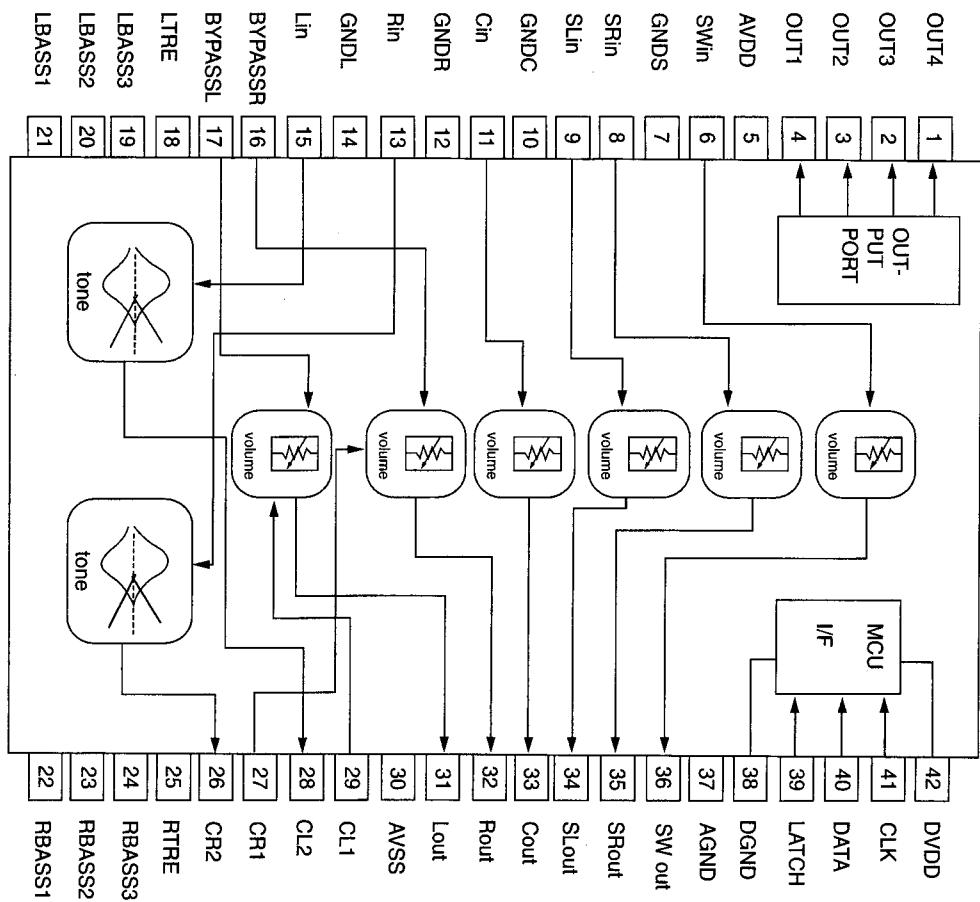
KIA7915PI : IC102



KA7815/IL7815CV : IC101
KA7805 : IC103
KA7806 : IC710

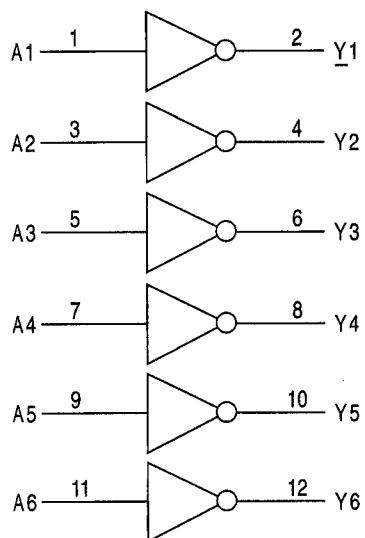


M62446FP : IC406



MC74HCU04AD : IC803

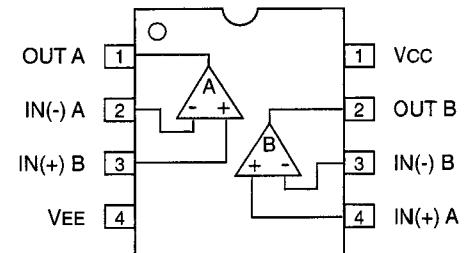
LOGIC DIAGRAM



PIN ASSIGNMENT

A1	1	14	VCC
Y1	2	13	A6
A2	3	12	Y6
Y2	4	11	A5
A3	5	10	Y5
Y3	6	9	A3
GND	7	8	Y4

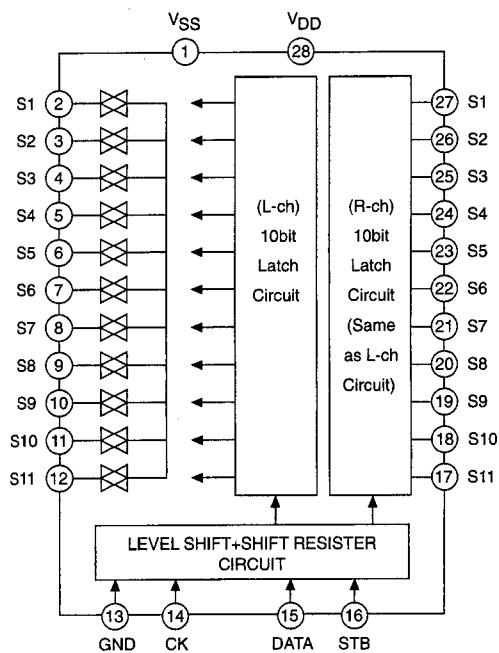
NJM2068MD : IC402, IC407,
IC408, IC409,
IC805, IC806,
IC809, IC810,
IC811, IC812,
IC813



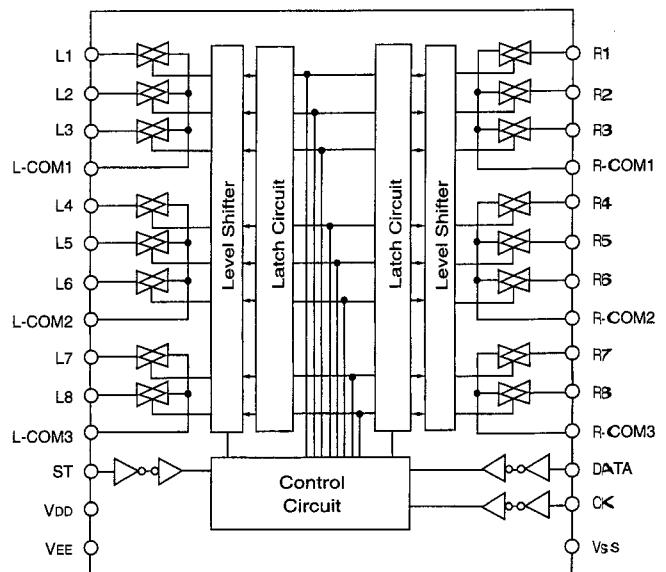
FUNCTION TABLE

Inputs	Outputs
A	Y

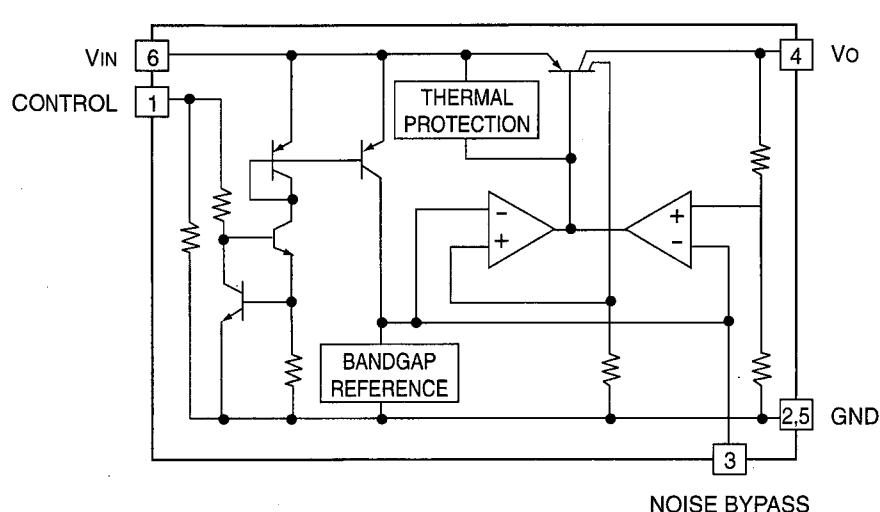
TC9273N-007 : IC401



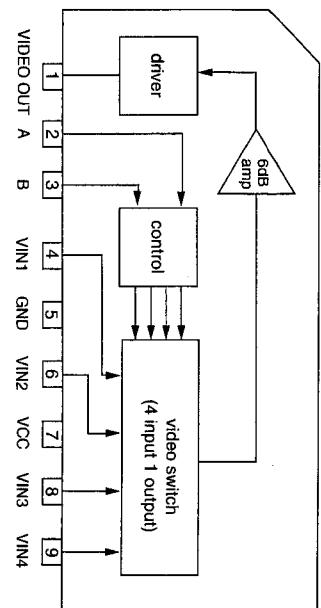
NJU7312AL : IC403



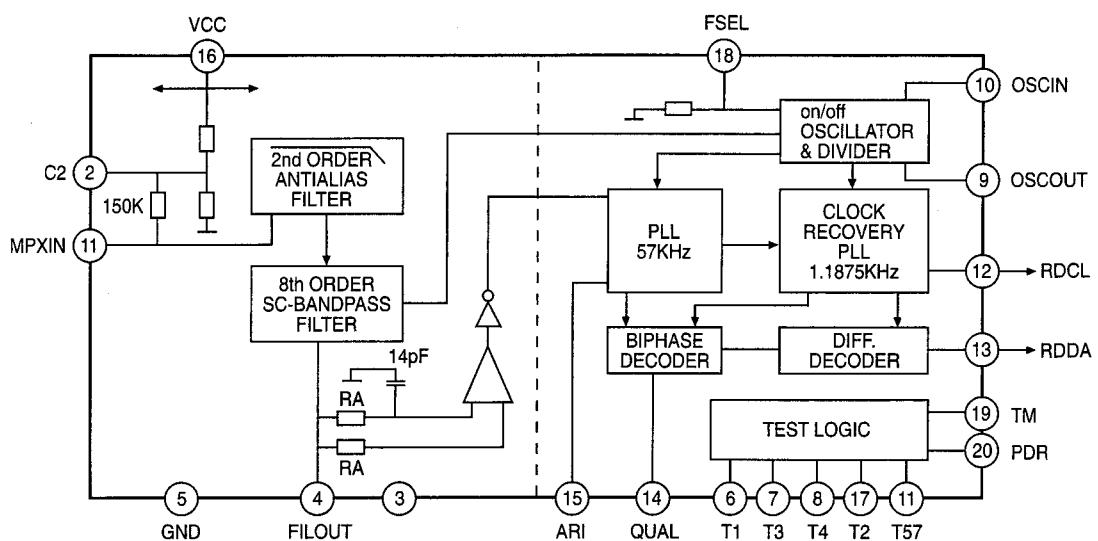
TK11233AM : IC801



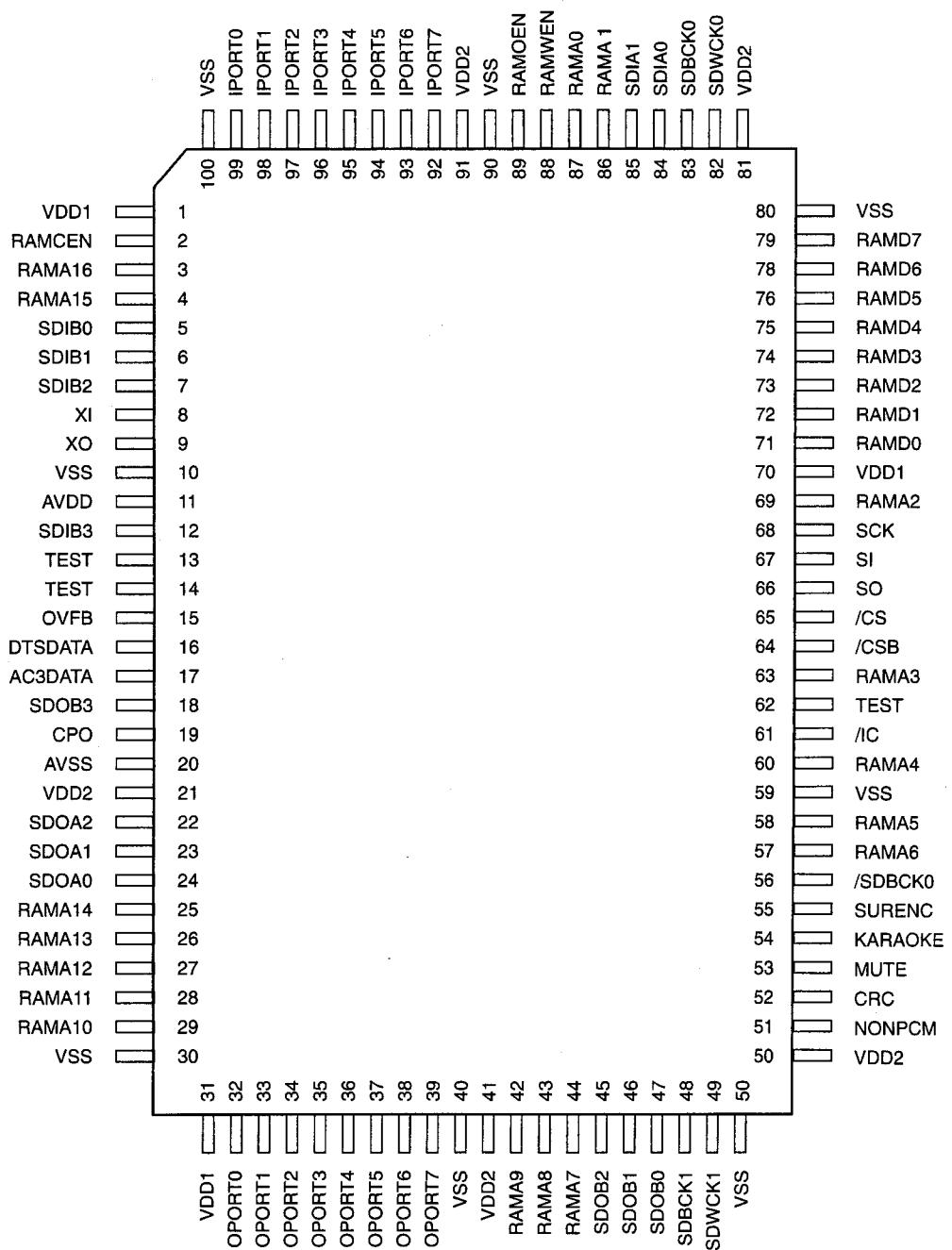
LA7952 : IC404

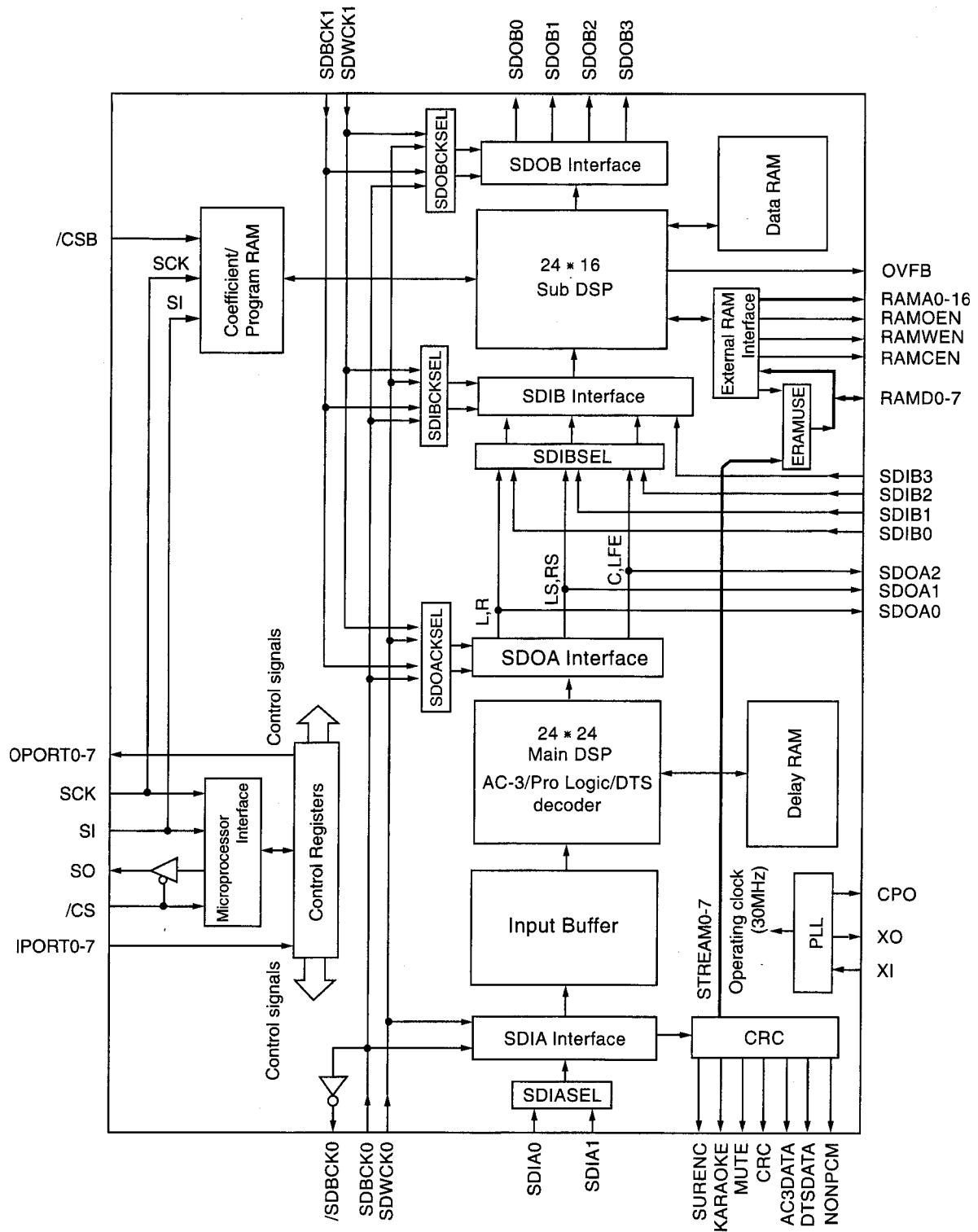


TDA7330BD : IC302

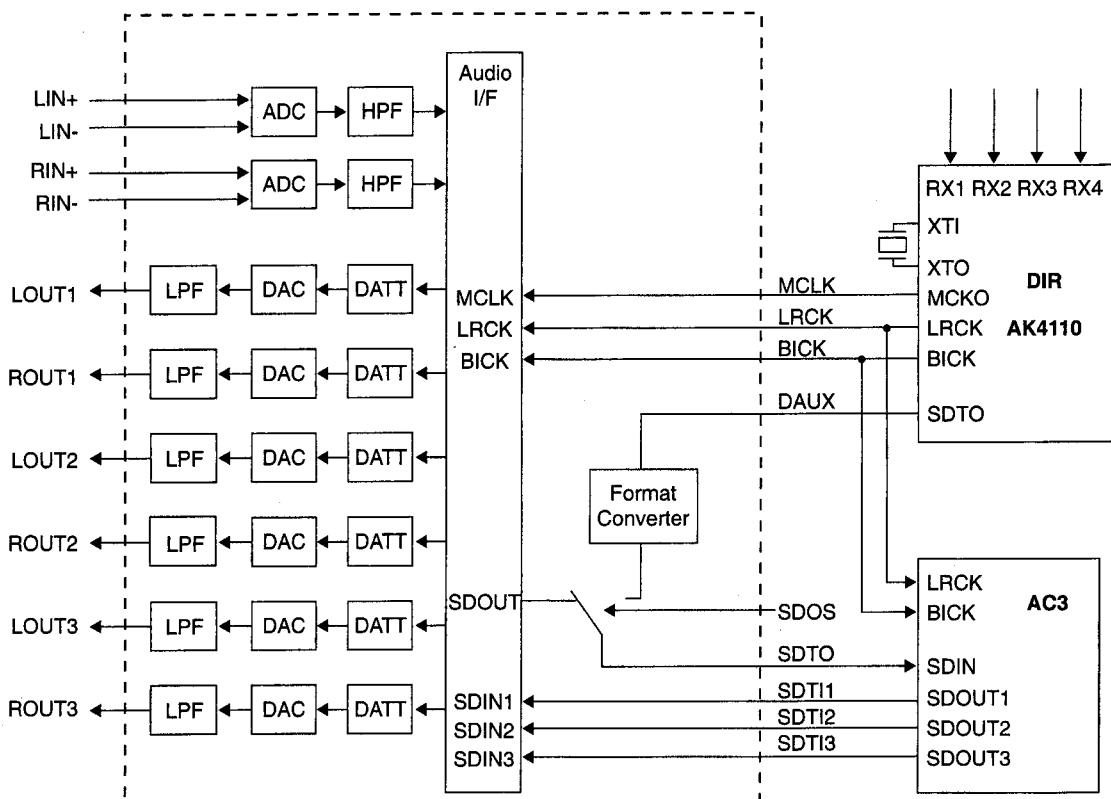
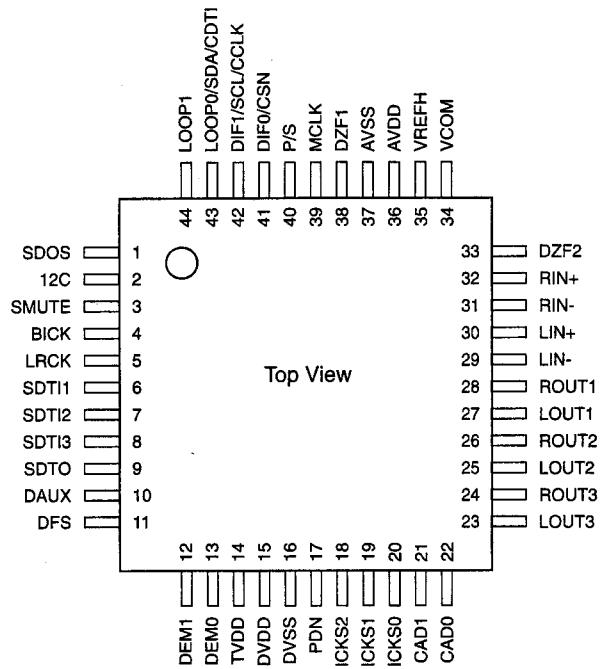


YSS912 : IC802



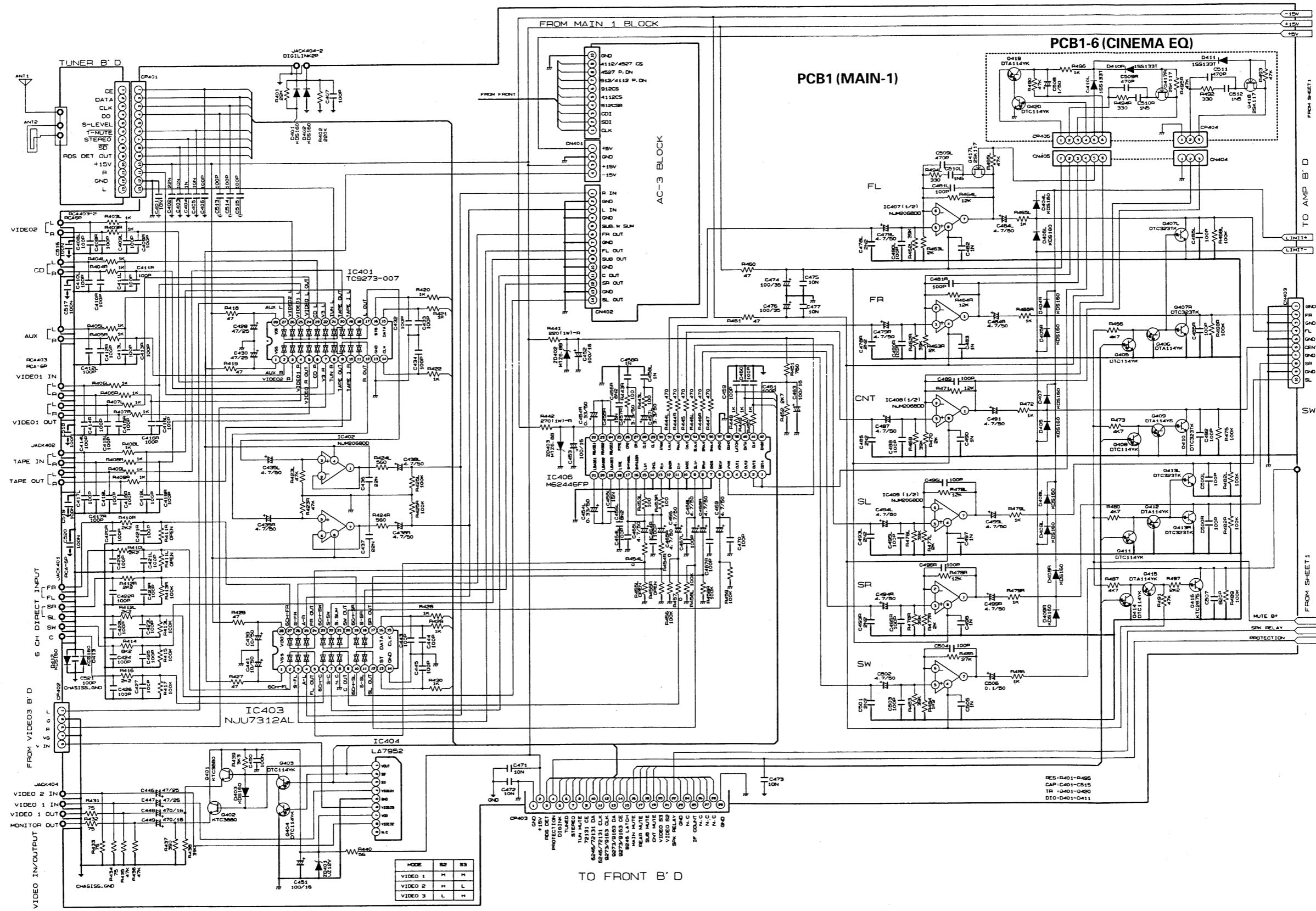


AK4527-VQ : IC808



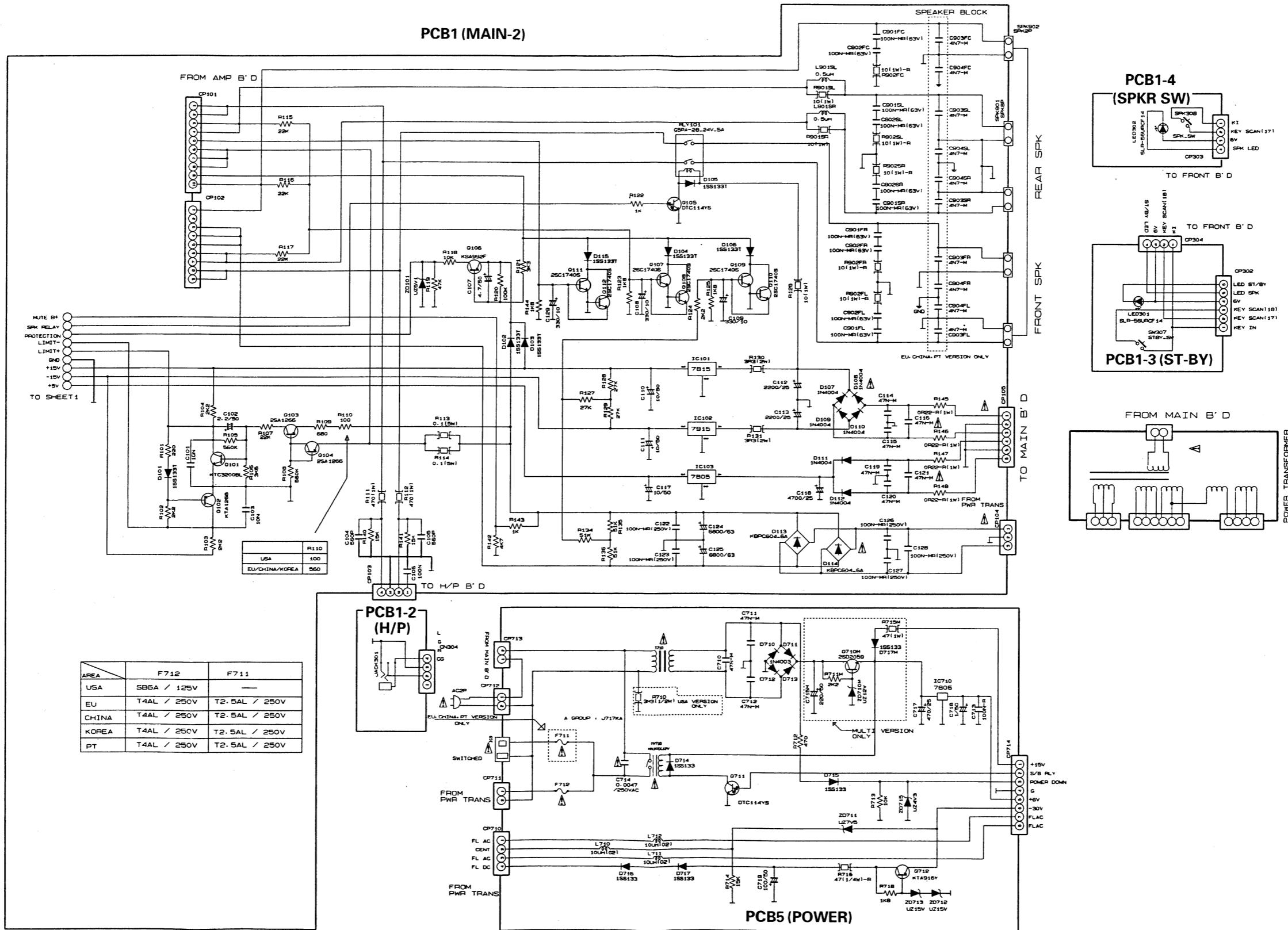
SCHEMATIC DIAGRAM (I)

Model No. : RD-6106/G/RDS



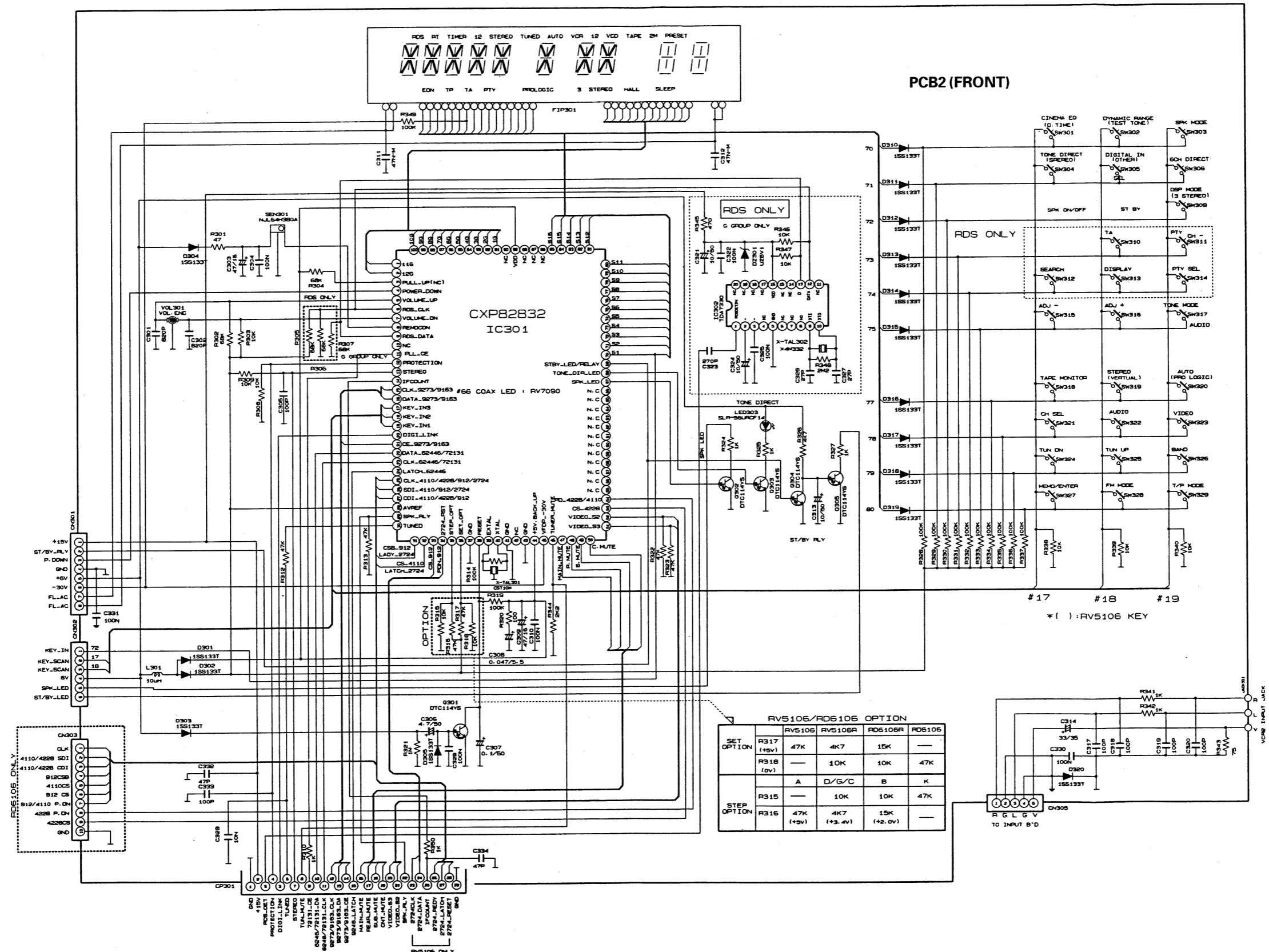
SCHEMATIC DIAGRAM (III)

Model No. : RD-6106/G/RDS



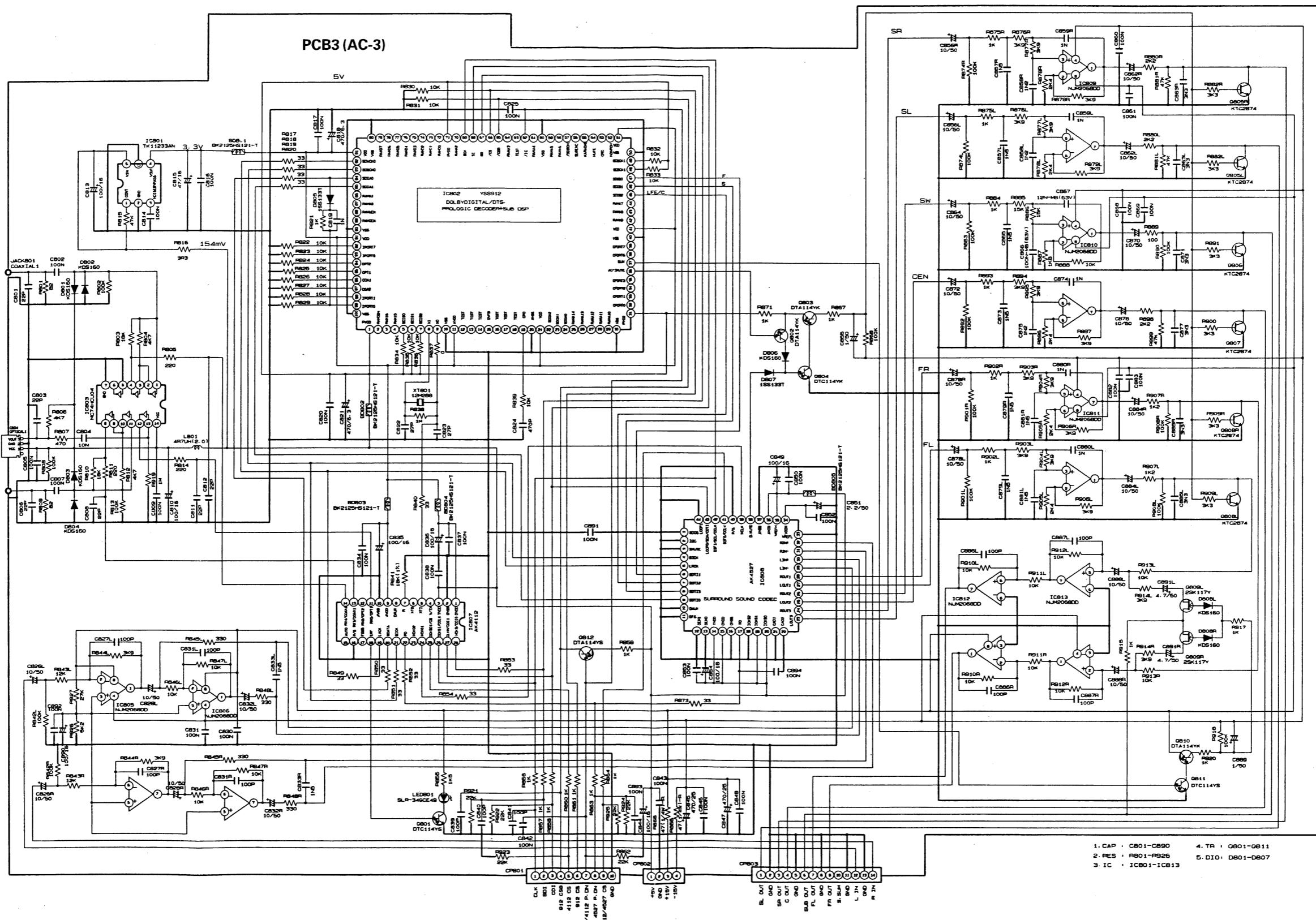
SCHEMATIC DIAGRAM (III)

Model No. : RD-6106/G/RDS



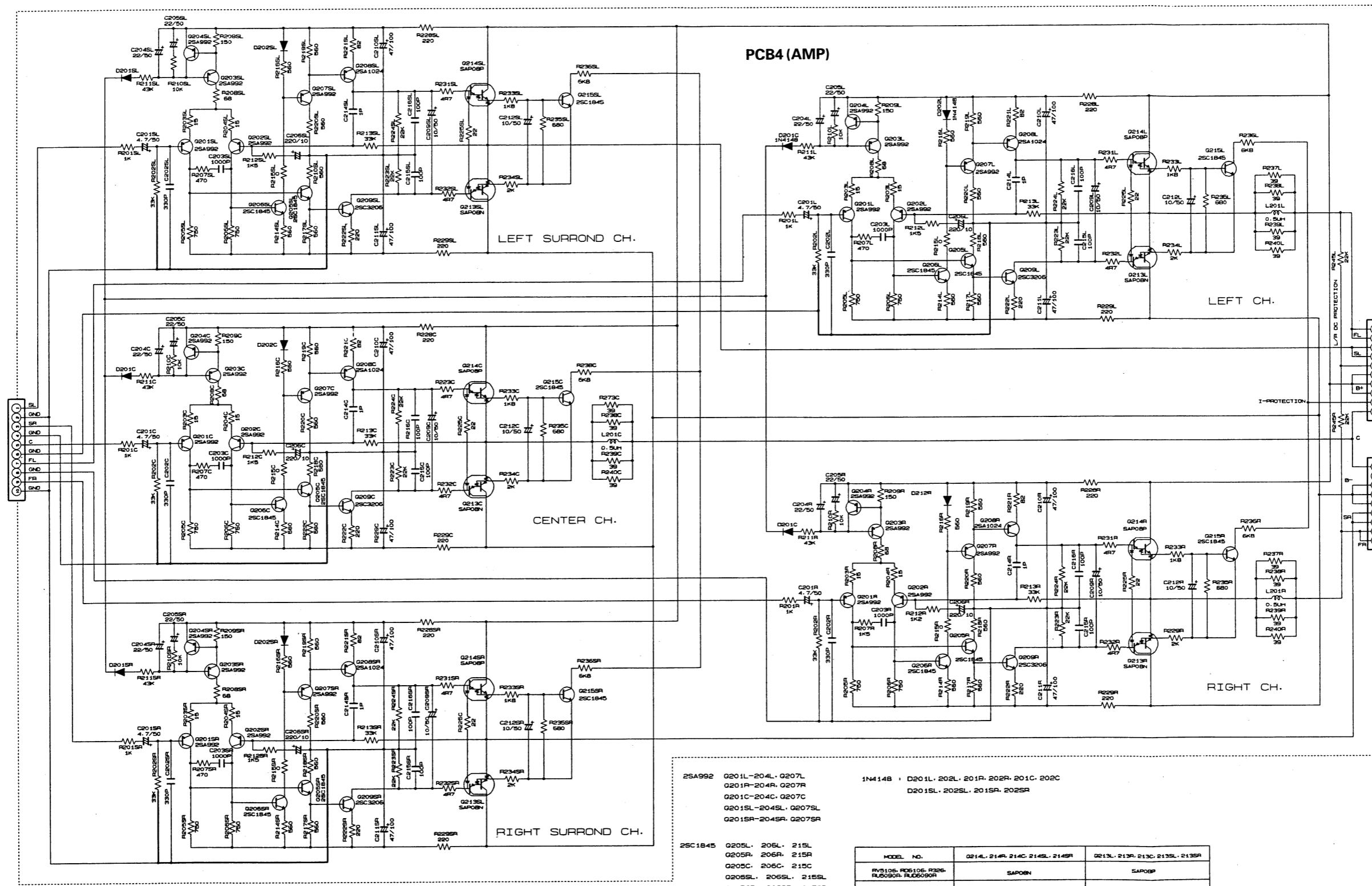
SCHEMATIC DIAGRAM (IV)

Model No. : RD-6106/G/RDS



SCHEMATIC DIAGRAM (V)

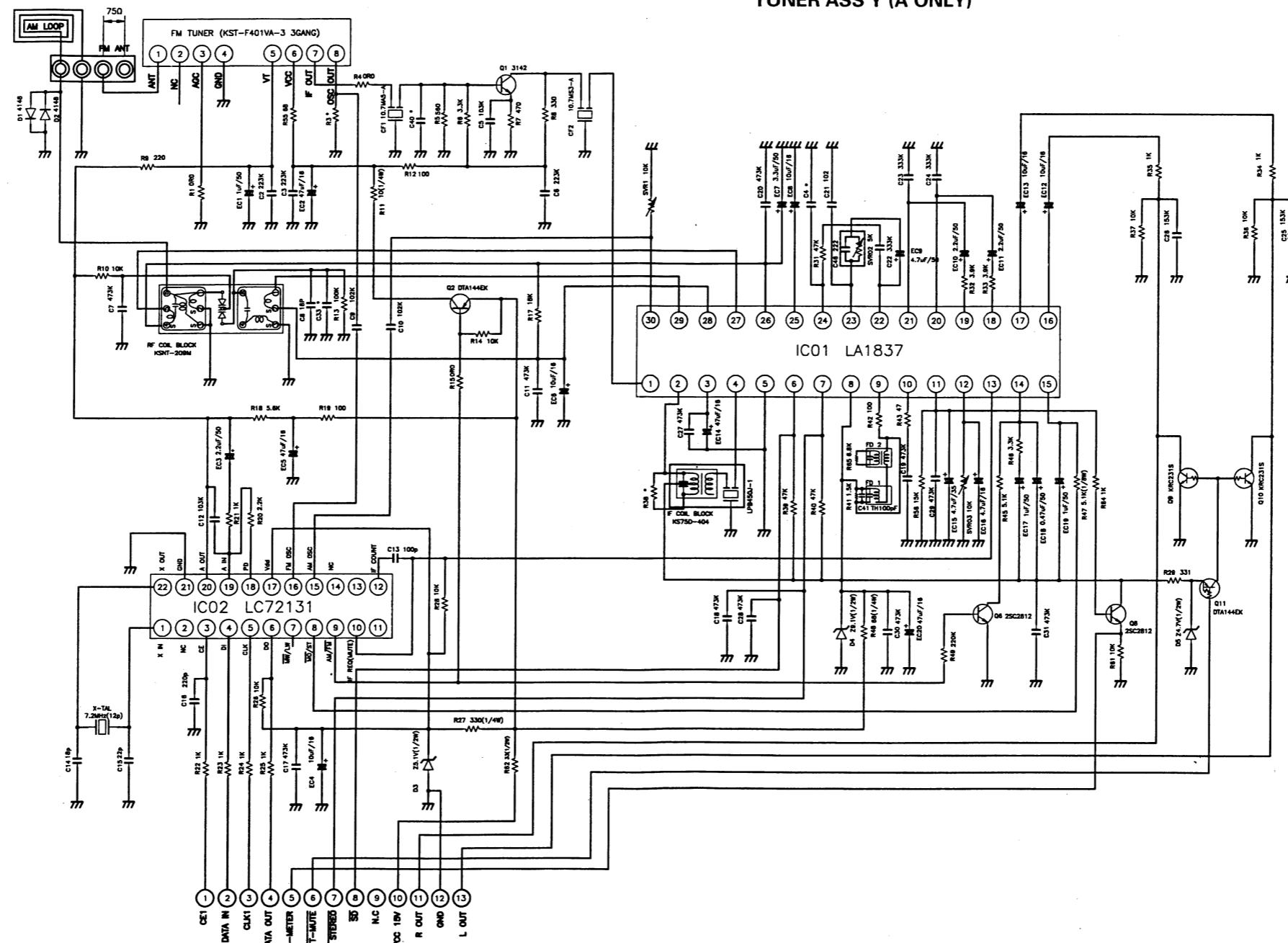
Model No. : RD-6106/G/RDS



SCHEMATIC DIAGRAM (VI)

Model No. : RD-6106/G/RDS

TUNER ASS'Y (A ONLY)



SCHEMATIC DIAGRAM (VII)

Model No. : RD-6106/G/RDS

TUNER ASS'Y (C/D/RDS ONLY)

